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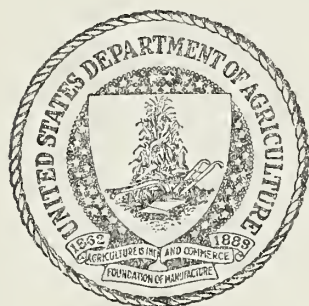


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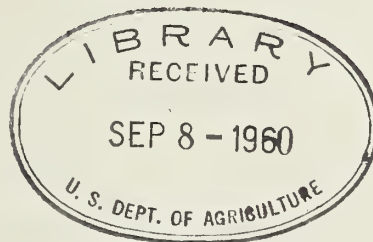
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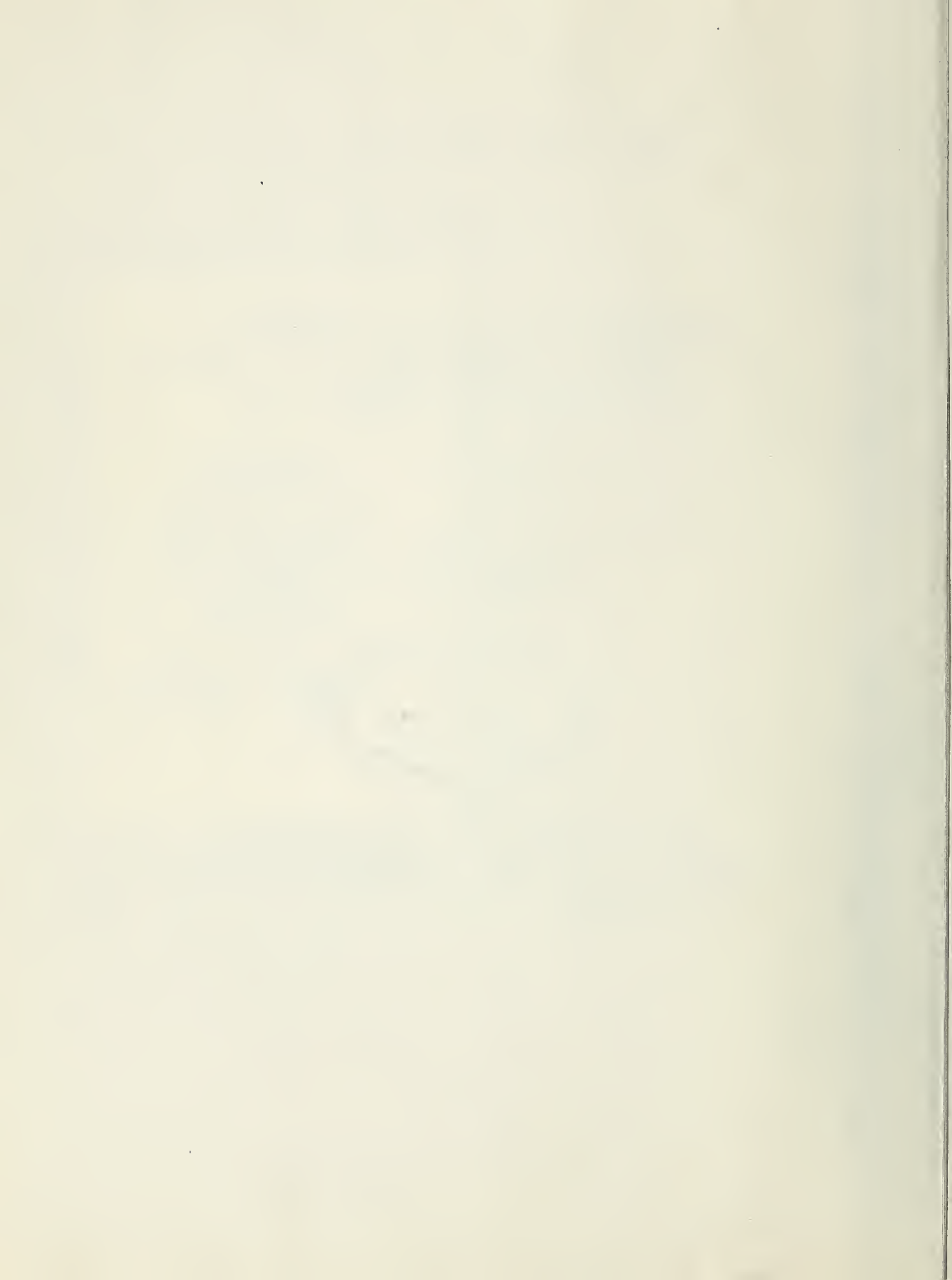
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Quality Maintenance and Improvement Section,  
Biological Sciences Branch,  
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U. S. Department of Agriculture X

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March 1959



This list contains most of the publications dealing with protection of perishables in transit prepared by staff members of the Section from about 1930 through 1957.



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## PRECOOLING

### CAR AND TRUCK

A portable precooling apparatus. A. G. Galloway. USDA-BPI Mimeo. July 15, 1929.

Refrigerated transportation of Bartlett pears from Pacific Northwest. E. D. Mallison and C. L. Powell. U. S. Dept. Agr. Tech. Bul. 434. 30 pp. 1934.

A more economical method of shipping precooled pears. E. D. Mallison. Report of the Pacific Northwest Advisory Board. March 1935.

Precooling and shipping California asparagus. W. T. Pentzer, R. L. Perry, G. C. Hanna, J. S. Wiant and C. F. Asbury. Calif. Agr. Expt. Sta. Bul. 600. 45 pp. 1936.

Rate of cooling of fruits and vegetables in storage and in transit. D. H. Rose. Refrig. Eng. 31:369-374. 1936.

Refrigeration of oranges in transit from California. C. W. Mann and W. C. Cooper. U. S. Dept. Agr. Tech. Bul. 505. 88 pp. 1936.

Precooling tests with truck-mounted mechanically refrigerated units. W. T. Pentzer and C. E. Asbury. The Blue Anchor 13 (7):6-9. 1936.

Handling, precooling, and transportation of Florida strawberries. D. H. Rose and E. A. Gorman. U. S. Dept. Agr. Tech. Bul. 525:58 pp. 1936.

Investigations of peaches, 1937. E. D. Mallison, C. O. Bratley. U. S. Dept. Agr. H.T.&S. Office Rept. No. 18. 9 pp. 1937.

Report on precooling and shipping tests with California cantaloups, 1937 season. W. T. Pentzer, J. S. Wiant, C. E. Asbury, C. O. Bratley, R. C. Wright, D. F. Fisher and J. H. Mac Gillivray. U. S. Dept. Agr. H.T.&S. Office Rept. No. 20. 37 pp. 1938.

Body-icing in the transit refrigeration of vegetables. E. D. Mallison and W. T. Pentzer. U. S. Dept. Agr. Tech. Bul. 627, 42 pp. 1938.

Investigations on peaches, 1938 season, Report on the relation of maturity and temperatures in transit to length of marketing period, quality and condition, and on the advantages of ventilated cover pads. E. D. Mallison, C. O. Bratley, and J. S. Wiant. U. S. Dept. Agr. H.T.&S. Office Rept. No. 28. 14 pp. Jan. 1939.

Investigations on the precooling and transportation of Florida citrus fruits, 1939. E. D. Mallison. U. S. Dept. Agr. H.T.&S. Office Rept. No. 34. 66 pp. Aug. 1939.

Peach precooling studies, Berlin, Md., 1939. M. H. Haller. U. S. Dept. Agr. H.T.&S. Office Rept. No. 35. 11 pp. Oct. 1939.



Investigations on the precooling and transportation of Texas grapefruit. March 1940. J. M. Lutz. U. S. Dept. Agr. H.T.&S. Office Rept. No. 40. 14 pp. April 1940.

Investigations on the precooling and transportation of Florida citrus fruit. 1939-40. J. R. Winston, E. D. Mallison and C. O. Bratley. U. S. Dept. Agr. H.T.&S. Office Rept. No. 49. 141 pp. Aug. 1940.

Market quality and condition of California cantaloupes as influenced by maturity, handling and precooling. W. T. Pentzer, J. S. Wiant and J. H. MacGillivray. U. S. Dept. Agr. Tech. Bul. 730. 74 pp. 1940.

Investigations on the precooling and transportation of Florida citrus fruit. 1940-41 season. J. R. Winston, C. O. Bratley. U. S. Dept. Agr. H.T.&S. Office Rept. No. 79. 6 pp. Dec. 1941.

Investigations on the precooling and transportation of Florida potatoes. 1941 season. J. R. Winston. U. S. Dept. Agr. H.T.&S. Office Rept. No. 81. 17 pp. Jan. 1942.

Report on experimental work dealing with the precooling, transit refrigeration and ripening of California Bartlett pears during the 1941 season. W. T. Pentzer, C. O. Bratley, A. L. Ryall, J. S. Wiant, F. W. Allen, H. T. Hartman, D. S. Glenn, C. N. McClanahan, C. N. Ely, and W. G. Tufts. U. S. Dept. Agr. H.T.&S. Office Rept. No. 84. 43 pp. 1942.

Report of transportation test with cantaloupes and honey ball melons from Imperial Valley, Calif. to New York, N. Y. June to July 1942. W. R. Barger, G. Embree, and C. W. Mann. U. S. Dept. Agr. H.T.&S. Office Rept. No. 101. 30 pp. 1942.

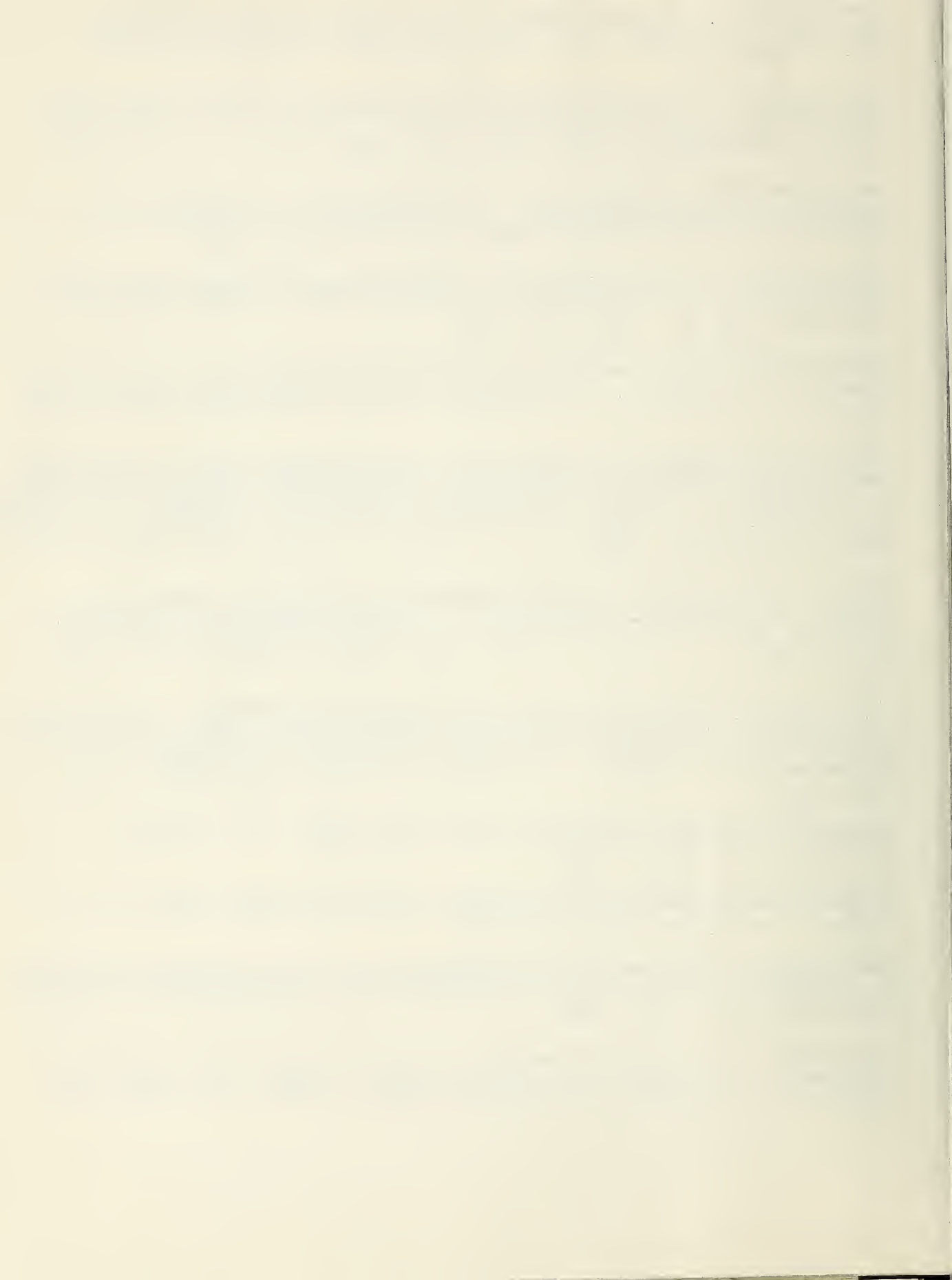
Report on experimental work dealing with the precooling transit refrigeration and ripening of California Bartlett pears during the 1942 season. W. T. Pentzer, C. O. Bratley, A. L. Ryall, J. S. Wiant, F. W. Allen, H. T. Hartman, C. N. McClanahan and W. G. Tufts. U. S. Dept. Agr. H.T.&S. Office Rept. No. 114. 25 pp. 1942.

Precooling and transit temperature studies with grapes. W. T. Pentzer. Blue Anchor 19(3):10-16. 1942.

Precooling grapes with special reference to the Hoak crosswise load. W. T. Pentzer. Blue Anchor 20(4):6-11. 1943.

Investigations on the handling and transportation of early potatoes in the East. R. C. Wright, J. M. Lutz, and C. O. Bratley. U. S. Dept. Agr. H.T.&S. Office Rept. No. 93. 21 pp. Feb. 1943.

The effectiveness of different methods of car precooling oranges in Florida - 1942 season. A. L. Ryall, J. R. Winston, and W. R. Henry. U. S. Dept. Agr. H.T.&S. Office Rept. No. 97. 16 pp. May 1943.





Experiments on shipping washed early potatoes. G. B. Ramsey, J. M. Lutz, H. O. Werner and A. D. Edgar. Nebraska Agr. Expt. Sta. Bul. 364. 32 pp. 1944.

Car precooling of sweet cherries and prunes at Oregon in 1943. F. Gerhardt, H. English and C. O. Bratley. U. S. Dept. Agr. H.T.&S. Office Rept. No. 138. 19 pp. 1944.

An evaluation of precooling and transit protective services for Texas citrus fruit. A. L. Ryall and G. B. Ramsey. U. S. Dept. Agr. H.T.&S. Office Rept. No. 159. 44 pp. Aug. 1945.

A preliminary report on the precooling and transportation of Florida snap beans in refrigerator cars. J. R. Winston, J. S. Wiant, and W. D. Moore. U. S. Dept. Agr. H.T.&S. Office Rept. No. 162. 19 pp. 1945.

Precooling California grapes and their refrigeration in transit. W. T. Pentzer, C. E. Asbury and W. R. Barger. U. S. Dept. Agr. Tech. Bul. 899. 64 pp. 1945.

Tests on the transportation of peaches from Colorado August 1946 from Grand Junction, Colo. to Lincoln, Neb. and Minneapolis, Minn. M. H. Haller. U. S. Dept. Agr. H.T.&S. Office Rept. No. 175. 24 pp. Sept. 1946.

Handling and shipping early potatoes. D. H. Rose. U. S. Dept. Agr. Circ. 744. 44 pp. 1946.

The precooling and transportation of sweet cherries. E. Smith. Montana State Hort. Soc. Nov. 1949.

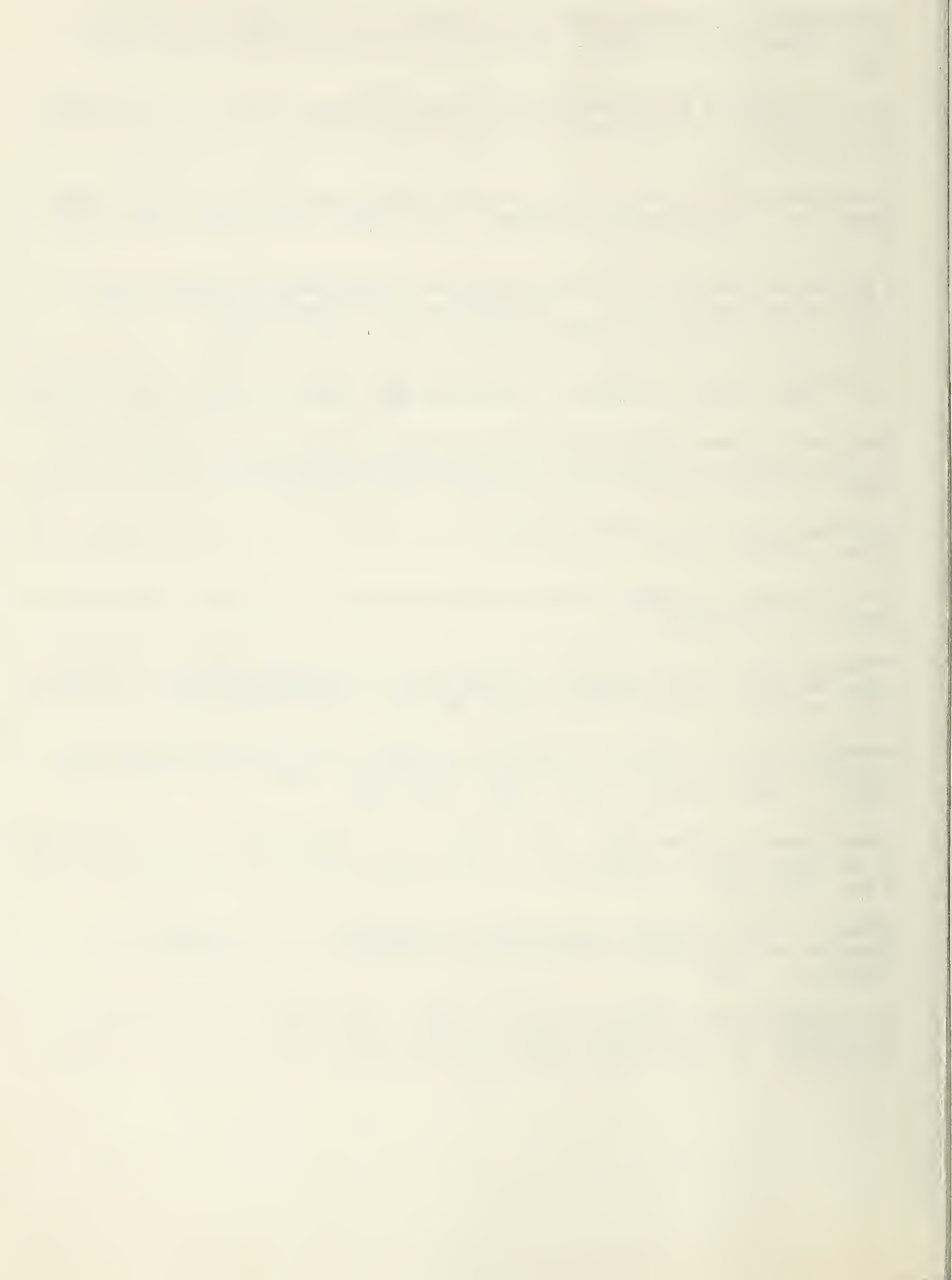
Transportation tests with early potatoes from Kern County, Calif. to New York City, May 1951. W. R. Barger, J. M. Harvey, W. A. Radspinner and L. L. Morris. U. S. Dept. Agr. H.T.&S. Office Rept. No. 271. 23 pp. Apr. 1952.

Further studies of transit protective services for California Bartlett pears. Feb. 1952. A. L. Ryall, W. A. Radspinner and F. W. Allen. U. S. Dept. Agr. H.T.&S. Office Rept. No. 262. 19 pp. Feb. 1952.

Peach precooling tests 1951. M. H. Haller, W. A. Radspinner, S. E. Womeldorph, M. A. Smith and W. R. Wright. U. S. Dept. Agr. H.T.&S. Office Rept. No. 276. 8 pp. June 1952.

Effect of various treatments of decay in tangerines. J. R. Winston, H. W. Hruschka and R. Cubbage. Citrus Indus. 33(6):5-6, 13-14; (7):6-7, 13, (8)8-9, 12. 1952.

Rail refrigeration test with Florida citrus. April 1951. J. R. Winston, R. Cubbage, H. W. Hruschka, and G. A. Meckstroth. U. S. Dept. Agr. H.T.&S. Office Rept. No. 279. 38 pp. Sept. 1952.



Rail refrigeration tests with Florida citrus. May 1951. J. R. Winston, R. Cubbedge, H. W. Hruschka and G. A. Meckstroth. U. S. Dept. Agr. H.T.&.S. Office Rept. No. 280. 44 pp. Sept. 1952. 1.9 Pgs

Shipping and cooling-in-car tests with oranges in Fiberboard cartons in different load patterns, 1953. E. M. Harvey, E. P. Atrops, H. W. Hruschka and H. R. Barber. U. S. Dept. Agr. AMS-2, 38 pp. 1954. 4

Precooling South Carolina peaches in 1953. W. H. Redit and M. A. Smith. U.S. Dept. Agr. H.T.&.S. Office Rept. No. 306. 25 pp. 1953. 4

Precooling and transit temperatures of western lettuce. A. L. Ryall. Proc. Conf. on the Transportation of Perishables. Davis, Calif. Pgs. 89-93, April 1954. 1

Winter lettuce precooling, transit refrigeration tests. A. L. Ryall, J. Kaufman, and W. R. Barger. West. Grow. and Shipper. 25(13):16-21, Dec. 1954.

Effects of precooling, salting, carton ventilation and load pattern on temperature, moisture condensation and spoilage in rail shipments of prepackaged Early Black Massachusetts-grown cranberries. H. W. Hruschka, J. Kaufman, W. H. Redit, G. B. Ramsey and E. M. Harvey. U. S. Dept. Agr. AMS-43, 23 pp. 1955. 4

#### ROOM AND TUNNEL

Rate of cooling of fruits and vegetables in storage and in transit. D. H. Rose. Refrig. Eng. 31:369-374. 1936.

Body-icing in the transit refrigeration of vegetables. E. D. Mallison and W. T. Pentzer. U. S. Dept. Agr. Tech. Bul. 627, 42 pp. 1938.

Investigations on the precooling and transportation of Florida citrus fruits, 1939. E. D. Mallison. U. S. Dept. Agr. H.T.&.S. Office Rept. No. 34. 66 pp. Aug. 1939.

Storage response of Bing cherries to air movement, temperature and hydrocooling. F. Gerhardt and W. V. Hukill. Refrig. Eng. 49:275-277, 306, 1945.

Precooling grapes in tunnel coolers. W. T. Pentzer and W. R. Barger. U. S. Dept. Agr. H.T.&.S. Office Rept. No. 198. 7 pp. 1948.

Air blast and vacuum cooling of lettuce; temperature and moisture changes. D. H. Dewey. Amer. Soc. Hort. Sci. Proc. 56:320-326. 1950.

A comparison of transit protective services for Bartlett pears during the early part of the shipping season. A. L. Ryall, J. R. Clements, W. A. Radspinner, F. W. Allen, and R. W. Harris. U. S. Dept. Agr. H.T.&.S. Office Rept. No. 232. 32 pp. Oct. 1950. 4





Further studies of transit protective services for California Bartlett pears. Feb. 1952. A. L. Ryall, W. A. Radspinner and F. W. Allen. U. S. Dept. Agr. H.T.&S. Office Rept. No. 262. 19 pp. Feb. 1952.

Rail refrigeration test with Florida citrus, April 1951. J. R. Winston, R. Cubbage, H. W. Hruschka and G. A. Meckstroth. U. S. Dept. Agr. H.T.&S. Office Rept. No. 279. 38 pp. Sept. 1952.

Rail refrigeration tests with Florida citrus, May 1951. J. R. Winston, R. Cubbage, H. W. Hruschka and G. A. Meckstroth. U. S. Dept. Agr. H.T.&S. Office Rept. No. 280. 44 pp. Sept. 1952.

Shipping tests with precooled Valencia oranges in half-box size fiberboard cartons from Southern Calif. to New York, Aug. & Sept. 1952. E. M. Harvey, E. P. Atrops, H. W. Hruschka, and J. A. Scanlon. U. S. Dept. Agr. H.T.&S. Office Rept. No. 283. 20 pp. Dec. 1952.

The effects of packaging materials and package types on the cooling rate of table grapes. A. L. Ryall. Ice and Refrig. 123(2):11-15. 1952.

#### HYDROCOOLING

Precooling and shipping California asparagus. W. T. Pentzer, R. L. Perry, G. C. Hanna, J. S. Wiant and C. F. Asbury. Calif. Agr. Expt. Sta. Bul. 600. 45 pp. 1936.

Report on California asparagus shipping tests. G. B. Ramsey. U. S. Dept. Agr. H.T.&S. Office Rept. No. 21. 10 pp. 1938.

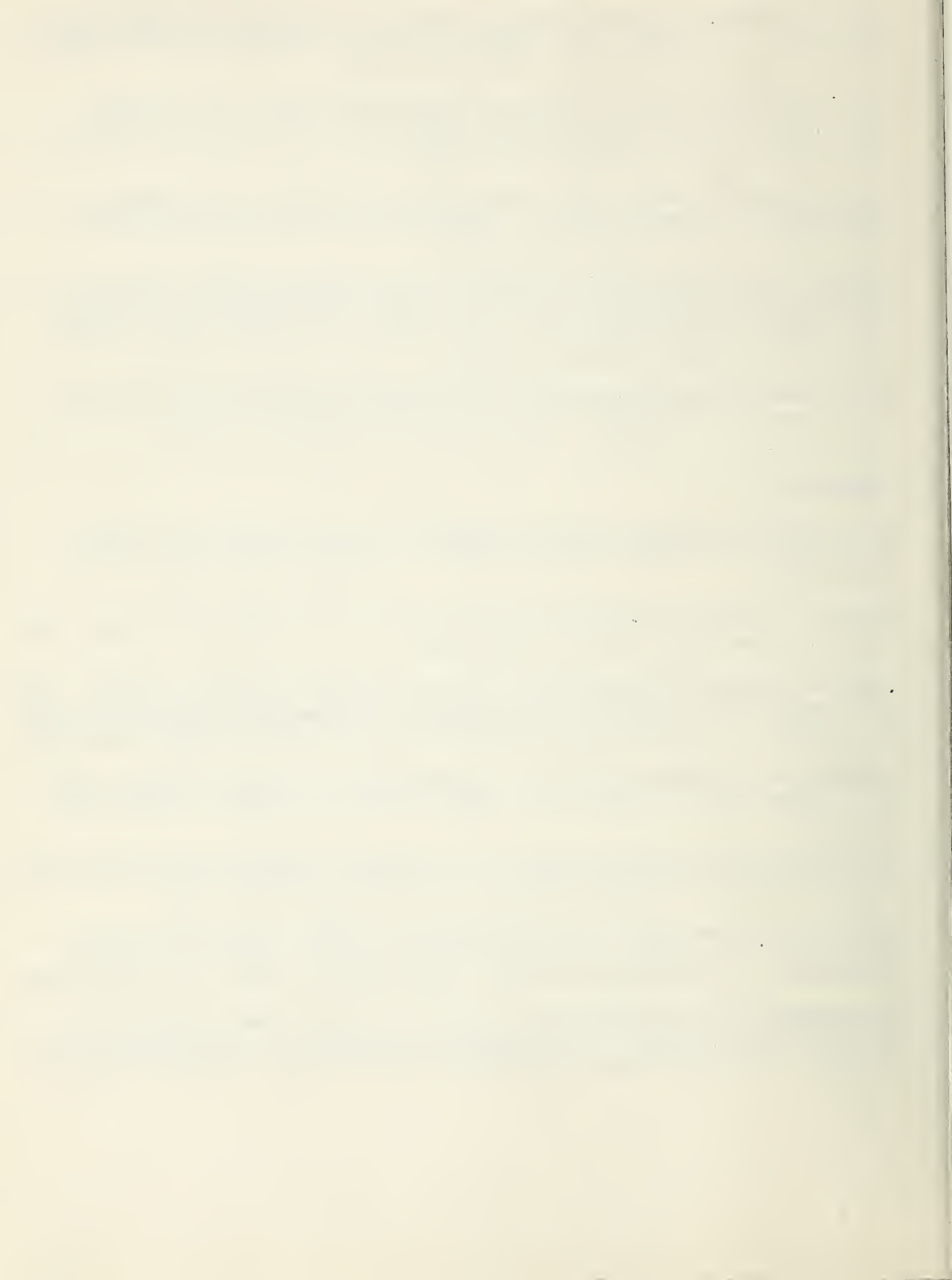
Report on shipping tests with early potatoes from Kern County, California, 1938. W. R. Barger, W. T. Pentzer, G. B. Ramsey, J. S. Wiant, J. H. MacGillivray and R. L. Perry. U. S. Dept. Agr. H.T.&S. Office Rept. No. 27. 16 pp. Oct. 1938.

Investigations on the precooling and transportation of Florida celery. 1940. D. F. Fisher and D. H. Rose. U. S. Dept. Agr. H.T.&S. Rept. No. 55. 28 pp. Dec. 1940.

Storage response of Bing cherries to air movement, temperature and hydrocooling. F. Gerhardt and W. V. Hukill. Refrig. Eng. 49:275-277, 306, 1945.

Transportation test with White Rose potatoes from Kern County, California to New York City. May 1948. W. R. Barger, M. A. Smith, H. T. Cook, and W. A. Radspinner. U. S. Dept. Agr. H.T.&S. Office Rept. No. 189. 31 pp. June 1948.

Transportation test with White Rose potatoes from Kern County, California to New York City, June 1948. D. H. Dewey, W. T. Pentzer, J. R. Clements, and B. A. Friedman. U. S. Dept. Agr. H.T.&S. Office Rept. No. 191. 24 pp. July 1948.



Temperature studies of commercial prepackaging broccoli and sweet corn at the shipping point. R. K. Showalter and H. A. Schomer. Amer. Soc. Hort. Sci. Proc. 54:325-329. 1949.

Precooling of prepackaged sweet corn with crushed ice. J. Kaufman, H. W. Hruschka and B. A. Friedman. U. S. Dept. Agr. H.T.&S. Office Rept. No. 210. 11 pp. May 1949.

Effect of hydrocooling and top-icing on temperature reduction in carlot shipments of crated sweet corn. J. R. Winston, R. Cubbedge, and J. Kaufman. U. S. Dept. Agr. H.T.&S. Office Rept. No. 270. 16 pp. April 1952.

Shipping tests with precooled Valencia oranges in half-box size fiberboard cartons from Southern Calif. to New York. Aug. & Sept. 1952. E. M. Harvey, E. P. Atrops, H. W. Hruschka, and J. A. Scanlon. U. S. Dept. Agr. H.T.&S. Office Rept. No. 283. 20 pp. Dec. 1952.

Precooling South Carolina peaches in 1953. W. H. Redit and M. A. Smith. U. S. Dept. Agr. H.T.&S. Office Rept. No. 306. 25 pp. 1953.

Tests on hydrocooling and refrigeration of peaches in transit from Georgia and South Carolina, 1954. W. H. Redit, M. A. Smith and P. L. Benfield. U. S. Dept. Agr. AMS-62. 24 pp. 1954.

How packaged carrots respond to transit refrigeration. W. R. Barger. Fruit and Vegetable Review. 18(3):12-13. June 1956.

Transit refrigeration studies with prepackaged carrots. W. R. Barger. Proc. Conf. on Transportation of Perishables. Asilomar, Pacific Grove, Calif. pp. 50-56. April 1956.

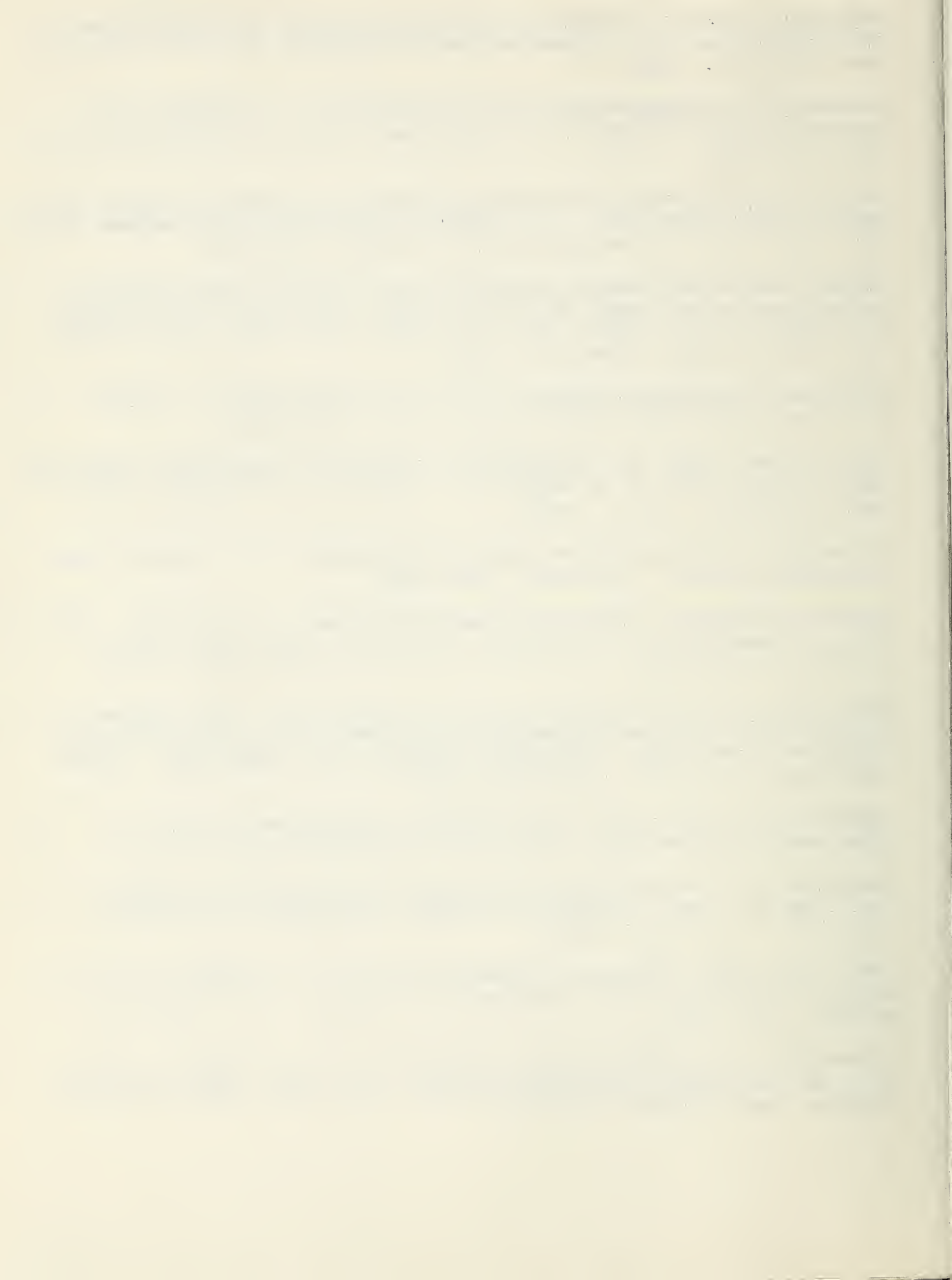
Hydrocooling and shipping prepackaged carrots from Texas. H. B. Johnson. Yearbook Texas Citrus and Veg. Growers and Shippers. pp. 139-140, 142. 1956. Also in Tenth Natl. Conf. on Handling Perishable Agrl. Commodities. Purdue University. pp. 155-159. March 12-16, 1956.

Transit refrigeration studies with California prepackaged carrots. W. R. Barger and W. A. Radspinner. U. S. Dept. Agr. AMS-97. 21 pp. 1956.

Precooling and refrigerating of sweet corn. J. M. Lutz and J. R. Winston. Proc. 10th Natl. Conf. on Handling Perishable Agricultural Commodities. Purdue Univ. pp. 175-178. 1956.

Peach hydrocooling, shipping and fungicidal tests. W. L. Smith, Jr., W. H. Redit, P. L. Benfield, G. B. Ramsey and M. J. Ceponis. U. S. Dept. Agr. AMS-199. 20 pp. 1957.

Hydrocooling and shipping peaches. W. H. Redit and W. L. Smith, Jr. U. S. Dept. Agr. Agricultural Marketing 2(6):14-15. June 1957. Also in Fruit and Vegetable Rev. 19(4):16. July 1957.



VACUUM COOLING

Report of vacuum cooling of lettuce, Salinas, California. June 13-15, 1949. James Clements. U. S. Dept. Agr. H.T.&S. Office Rept. No. 243. 9 pp. 1949.

Vacuum cooling of prepackaged spinach, cole slaw and mixed salad. B. A. Friedman. Amer. Soc. Hort. Sci. Proc. 58:279-287. 1951.

Vacuum cooling of pre-packaged spinach, cole slaw and mixed salad. B. A. Friedman. Pre-Pack-Age 6(12): 18-22. 1953.

Vacuum cooling fruits and vegetables. W. T. Pentzer. Amer. Fruit Grow. 73(11):13. 1953.

Comparison of storage life of vacuum-cooled and ice- packed lettuce. B. A. Friedman and J. Kaufman. U. S. Dept. Agr. H.T.&S. Office Rept. No. 309. 9 pp. 1953.

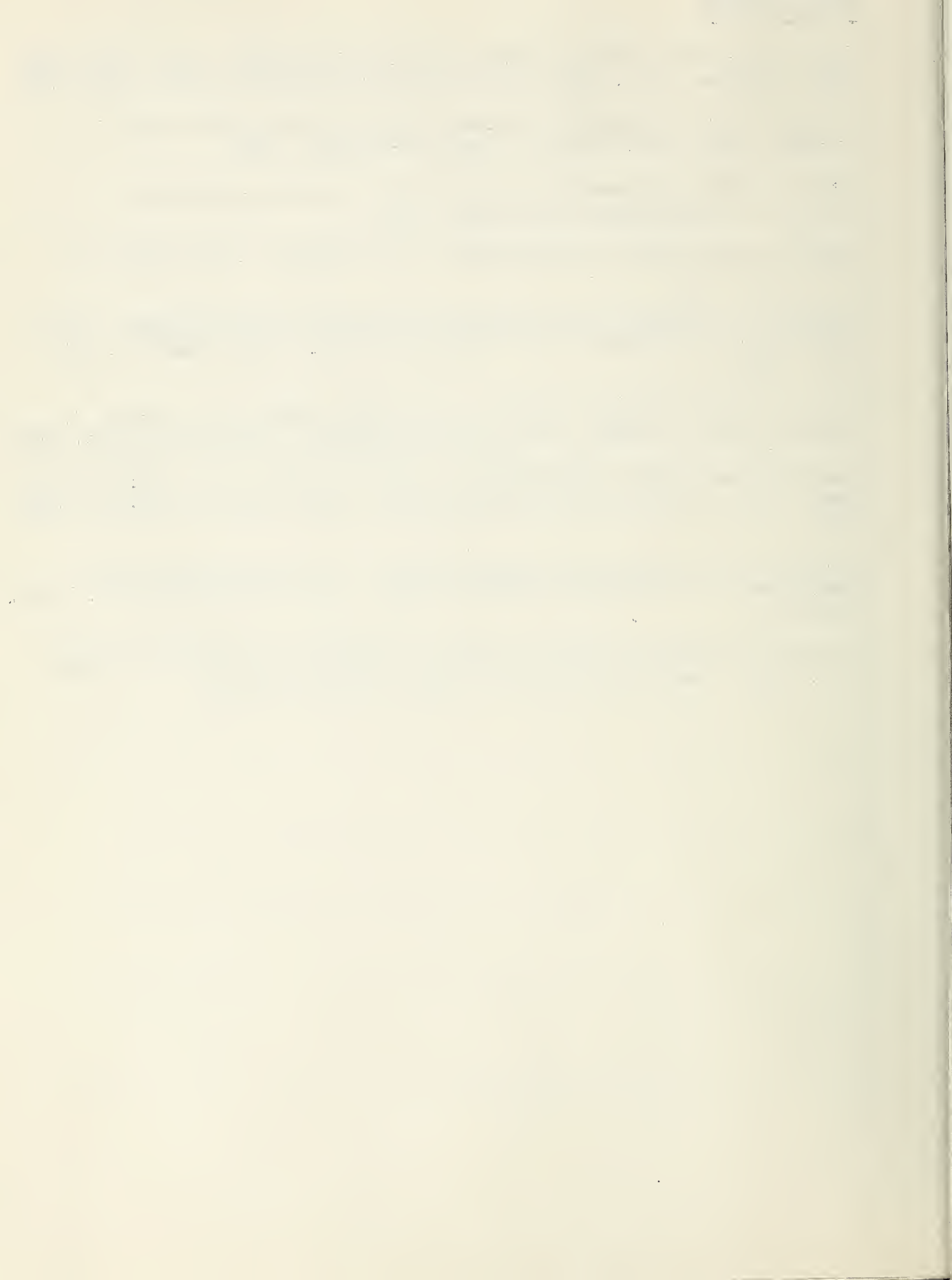
Winter lettuce precooling, transit refrigeration tests. A. L. Ryall, J. Kaufman, and W. R. Barger. West. Grow. and Shipper. 25(13):16-21. Dec. 1954.

Precooling and transit temperatures of western lettuce. A. L. Ryall. Proc. Conf. on the Transportation of Perishables. Davis, Calif. Pp. 89-93. April 1954.

Vacuum-cooling fresh vegetables and fruits. B. A. Friedman and W. A. Radspinner. U. S. Dept. Agr. AMS-107. 1956. Also Pre-Pack-Age 9(10): 16-20. June 1956.

Air blast and vacuum cooling of lettuce; temperature and moisture changes. D. H. Dewey. Amer. Soc. Hort. Sci. Proc. 56:320-326. 1950.





PRECOOLING - GENERAL

The decay of oranges while in transit from California. G. H. Powell et. al. U. S. Dept. Agr. BPI Bul. No. 123. 1908.

Precooling and the refrigeration of fruits and vegetables in transit. D. F. Fisher. Refrig. Engin. June 1938.

A review of precooling practice. D. F. Fisher. Refrig. Engin. pp. 238-243. April 1938.

Investigations on the precooling and transportation of Florida citrus fruit. 1940-41 season. J. R. Winston, C. O. Bratley. U. S. Dept. Agr. H.T.&S. Office Rept. No. 79. 6 pp. Dec. 1941.

The biological aspects of precooling fruits and vegetables. W. T. Pentzer. Refrig. Eng. 53 (6): 511-513. 1943.

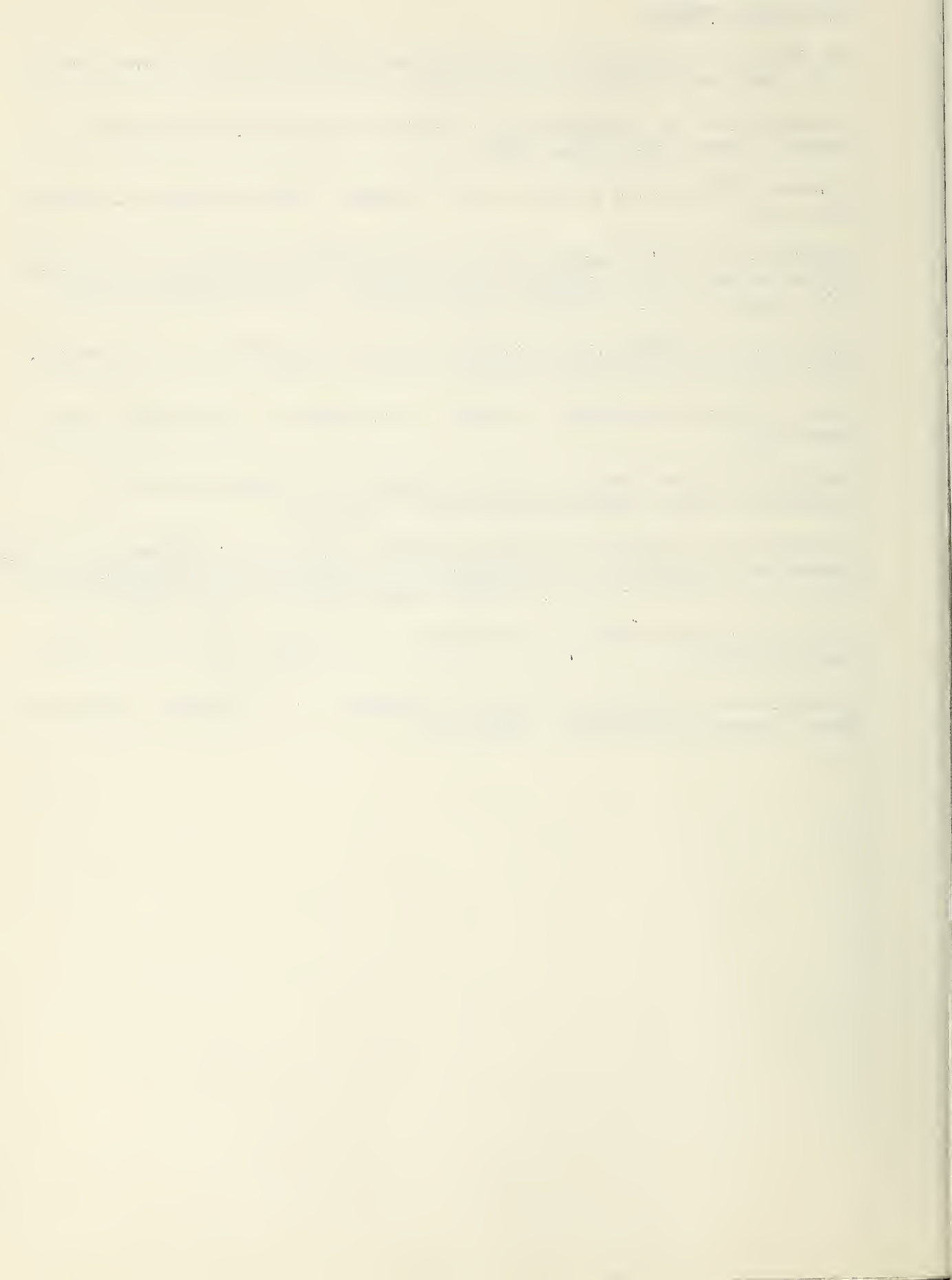
Precooling and cold storage of pears. W. T. Pentzer. Pear Growers League Annual 1948.

Precooling of sweet cherries. G. F. Sainsbury, F. Gerhardt, and H. W. Siegelman. Indus. Refrig. 125(4):13-16. Oct. 1953.

A comparison of protective services commonly used for rail shipments of Florida oranges and grapefruit. J. R. Winston, H. W. Hruschka, R. H. Cubbedge and G. A. Meckstroth. U. S. Dept. Agr. H.T.&S. Office Rept. No. 305. 37 pp. 1953.

Current precooling methods in California. A. L. Ryall. Proc. Natl. Peach Council 1954:70.

Preparation and packing of oranges for shipment. J. R. Winston. Indus. and Engin. Chemistry 26:762-765. July 1934.





RAIL TRANSPORTATION

REFRIGERATOR CARS AND EQUIPMENT - CAR FANS

Improving the efficiency of refrigerator cars with wind driven fans. E. A. Gorman. Blue Anchor 12(5) 8-9, 24, 26. 1935.

Report on a transportation test with sweet cherries in refrigerator cars: Influence of the height of load, mechanical circulation of air, and the use of carbon dioxide gas as a supplement to standard refrigeration. E. Smith, F. Gerhardt, and W. H. English. U. S. Dept. Agr. H.T.&.S. Office Rept. No. 92. 36 pp. July 1942.

Precooling and transit temperature studies with grapes. W. T. Pentzer. Blue Anchor 19(3):10-16. 1942.

Investigations on the transportation of tomato plants from Georgia to New Jersey and Pennsylvania. 1943. E. V. Miller, W. D. Moore, and T. M. Whiteman. U. S. Dept. Agr. H.T.&.S. Office Rept. No. 133. 19 pp. Nov. 1943.

Report on a transportation test with sweet cherries in refrigerator cars equipped with "Preco" fans: A comparison of salting practices and a study of carbon dioxide gas retention. F. Gerhardt and W. V. Hukill. U. S. Dept. Agr. H.T.&.S. Office Rept. No. 134. 23 pp. Nov. 1943.

Cooperative refrigeration shipping tests of Washington Navel oranges from Tulare County, California to New York, 1944. E. M. Harvey, G. L. Embree, W. T. Pentzer and C. O. Bratley. U. S. Dept. Agr. H.T.&.S. Office Rept. No. 144. 24 pp. 1944.

Precooling California grapes and their refrigeration in transit. W. T. Pentzer C. E. Asbury and W. R. Barger. U.S. Dept. Agr. Tech. Bul. 899. 64 pp. 1945.

Salting practices in fan and overhead basket bunker cars loaded with pre-cooled cherries. F. Gerhardt, and A. L. Ryall. U. S. Dept. Agr. H.T.&.S. Office Rept. No. 173. 22 pp. July 1946.

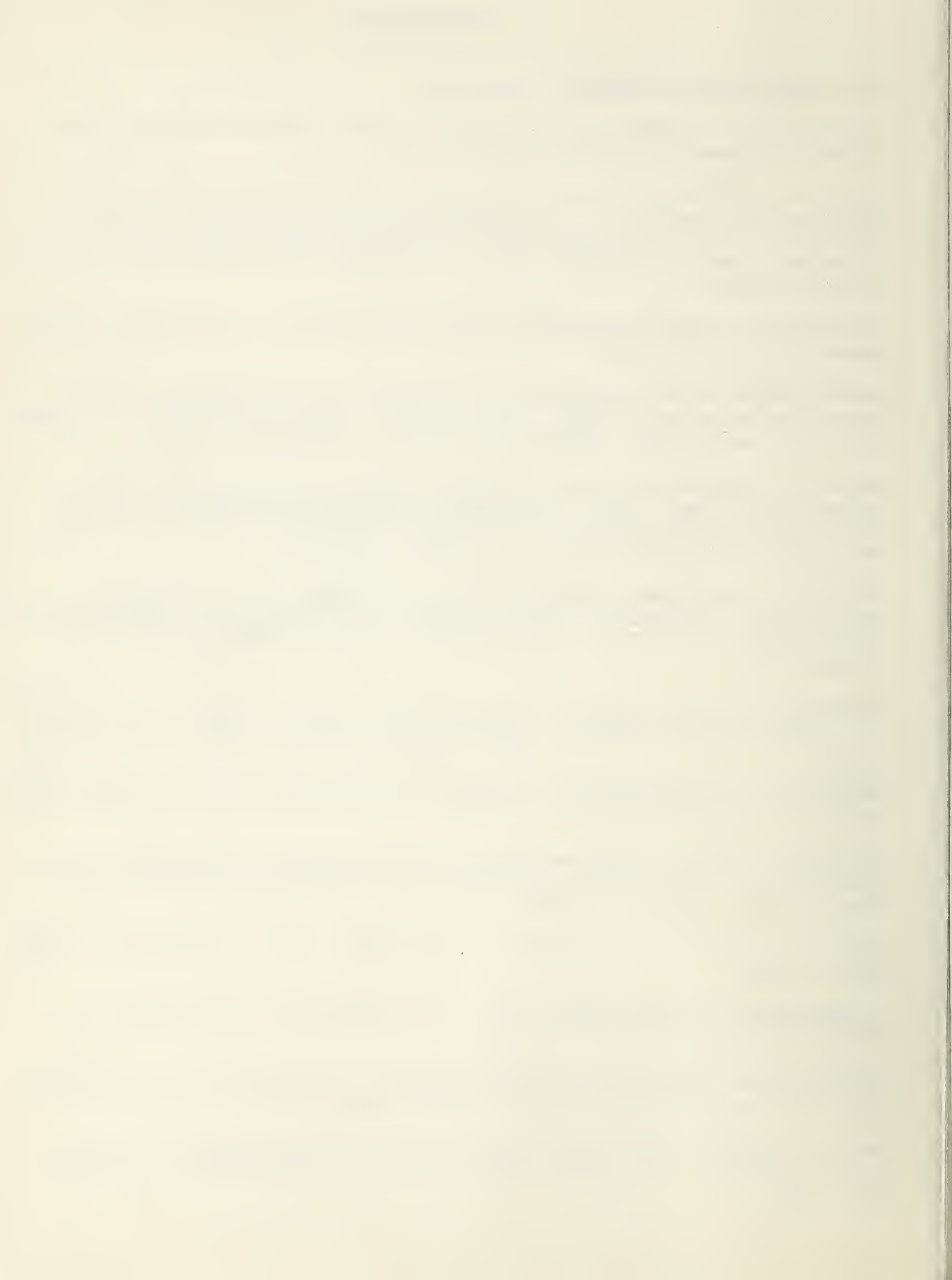
Tests with top-iced lettuce and carrots in fan cars, Aug.- Sept. 1946. W. T. Pentzer, C. O. Bratley and W. R. Barger. U. S. Dept. Agr. H.T.&.S. Office Rept. No. 178. 12 pp. Oct. 1946.

Handling and shipping early potatoes. D. H. Rose. U. S. Dept. Agr. Circ. 744: 44 pp. 1946.

Transportation test with cantaloups. W. R. Barger, J. S. Wiant and C. O. Bratley. AAR-USDA Test No. 5. 1946.

Transportation test with mature-green tomatoes. W. R. Barger, C. O. Bratley, and D. H. Dewey. AAR-USDA Report 10. Nov. 1946.

Report of tests on the transportation of grapes. W. R. Barger, E. Snyder, and W. T. Pentzer. U. S. Dept. Agr. H.T.&.S. Office Rept. No. 177. 20 pp. Oct. 1946.



Tests with top-iced lettuce in fan cars and standard cars. Jan.-Feb. 1947. D. H. Dewey, W. R. Barger, J. Kaufman and H. W. Hruschka. U. S. Dept. Agr. H.T.&S. Office Rept. No. 179. 24 pp. Mar. 1947.

Transportation test with cantaloups. Brawley, California to New York City. W. T. Pentzer, D. H. Dewey, E. P. Atrops, J. Kaufman. U. S. Dept. Agr. H.T.&S. Office Rept. No. 182. 23 pp. June 1947.

Car heaters and winter protection of fruit shipments. W. H. Redit, Edwin Smith, and F. Gerhardt. Summary of transportation tests with apples from Washington State, Dec. 1946-Jan. 1947. AAR-USDA Tests Nos. 12, 13, 14 and 15. June 1947. Also see AAR Final Report covering these same tests Oct. 1947.

Transportation test with green-wrap tomatoes shipped from Brentwood District, California, to Jersey City, New Jersey. W. R. Barger, H. W. Hruschka and B. A. Friedman. AAR-USDA Report 31. Nov. 1947.

Transportation test with White Rose potatoes from Kern County, California to New York City. May 1948. W. R. Barger, M. A. Smith, H. T. Cook and W. A. Radspinner. U. S. Dept. Agr. H.T.&S. Office Rept. No. 189. 31 pp. June 1948.

Transportation test with White Rose potatoes from Kern County, California to New York City. June 1948. D. H. Dewey, W. T. Pentzer, J. R. Clements, and B. A. Friedman. U. S. Dept. Agr. H.T.&S. Office Rept. No. 191. 24 pp. July 1948.

Performance test with overhead fan cars. Grapes from Delano, California to New York City. Oct. 1949. W. R. Barger. U. S. Dept. Agr. H.T.&S. Office Rept. No. 231. 10 pp. May 1950.

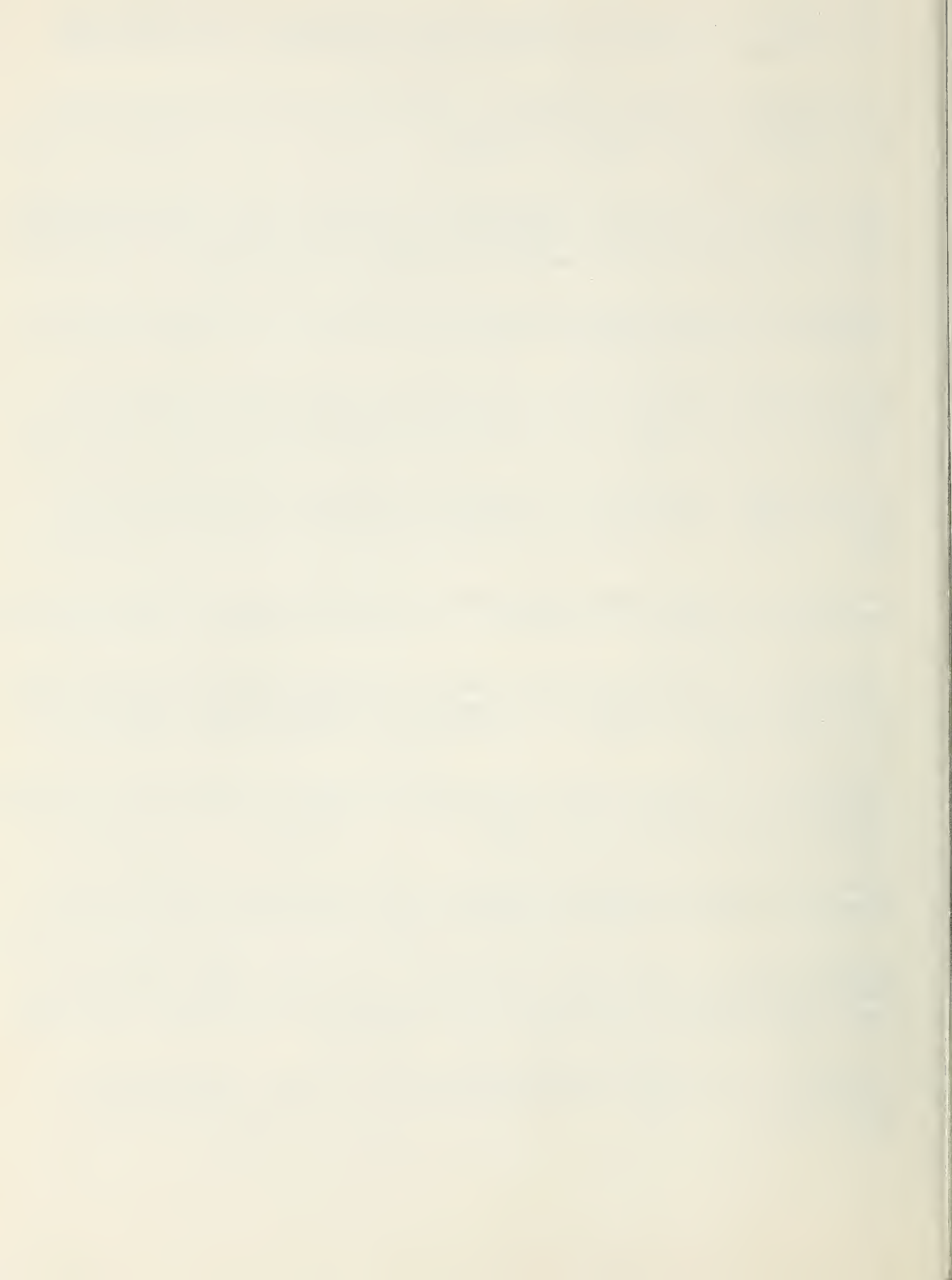
A comparison of transit protective services for Bartlett pears during the early part of the shipping season. A. L. Ryall, J. R. Clements, W. A. Radspinner, F. W. Allen, and R. W. Harris. U. S. Dept. Agr. H.T.&S. Office Rept. No. 232.- 32 pp. Oct. 1950.

Transportation test with lemons and oranges from southern California to New York. Nov. 1950. E. M. Harvey, E. P. Atrops and W. A. Radspinner. U. S. Dept. Agr. H.T.&S. Office Rept. No. 233. 33 pp.

Effect of storage and transit conditions on the performance of Nebraska grown Triumph seed potatoes shipped in carlots to Texas and Alabama. H. O. Werner, A. L. Ryall and J. M. Lutz. Nebraska Agr. Expt. Sta. Res. Bul. 164: 94 pp. 1950.

Shipping test from south Texas to Jersey City. May 1950. Half stage vs. full bunker refrigeration in fan cars with mature green Texas tomatoes in standard lugs. H. B. Johnson, W. R. Buford, B. A. Friedman and J. S. Wiant. U. S. Dept. Agr. H.T.&S. Office Rept. No. 246. 7 pp. May 1951.

Rail shipping tests with Long Island cauliflower - 1950. J. Kaufman, H. W. Hruschka and J. S. Wiant. U. S. Dept. Agr. H.T.&S. Office Rept. No. 259. 31 pp. 1951.





Shipping and ripening tests with Texas tomatoes, June 1951. H. B. Johnson, R. E. Hardenburg, B. A. Friedman and W. R. Buford. U. S. Dept. Agr. H.T.&S. Office Rept. No. 265. 14 pp. May 1952.

Effect of hydrocooling and top-icing on temperature reduction in carlot shipments of crated sweet corn. J. R. Winston, R. Cubbedge and J. Kaufman. U. S. Dept. Agr. H.T.&S. Office Rept. No. 270. 16 pp. Apr. 1952.

Rail refrigeration test with Florida citrus. Nov. 1950. J. R. Winston, R. Cubbedge, H. W. Hruschka and G. A. Meckstroth. U. S. Dept. Agr. H.T.&S. Office Rept. No. 277. 34 pp. June 1952.

Rail refrigeration test with Florida citrus. Apr. 1951. J. R. Winston, R. Cubbedge, H. W. Hruschka and G. A. Meckstroth. U. S. Dept. Agr. H.T.&S. Office Rept. No. 279. 38 pp. Sept. 1952.

Rail refrigeration tests with Florida citrus. May 1951. J. R. Winston, R. Cubbedge, H. W. Hruschka and G. A. Meckstroth. U. S. Dept. Agr. H.T.&S. Office Rept. No. 280. 44 pp. Sept. 1952.

Transportation test with lemons and oranges in 1/2-box size fiberboard cartons from Southern Calif. to New York - July 1952. E. M. Harvey, E. P. Atrops, W. A. Radspinner and H. W. Hruschka. U. S. Dept. Agr. H.T.&S. Office Rept. No. 281. 48 pp. Sept. 1952.

Rail refrigeration tests with Florida citrus: A comparison of refrigerator cars. J. R. Winston and J. Kaufman. U. S. Dept. Agr. H.T.&S. Office Rept. No. 282. 14 pp. Oct. 1952.

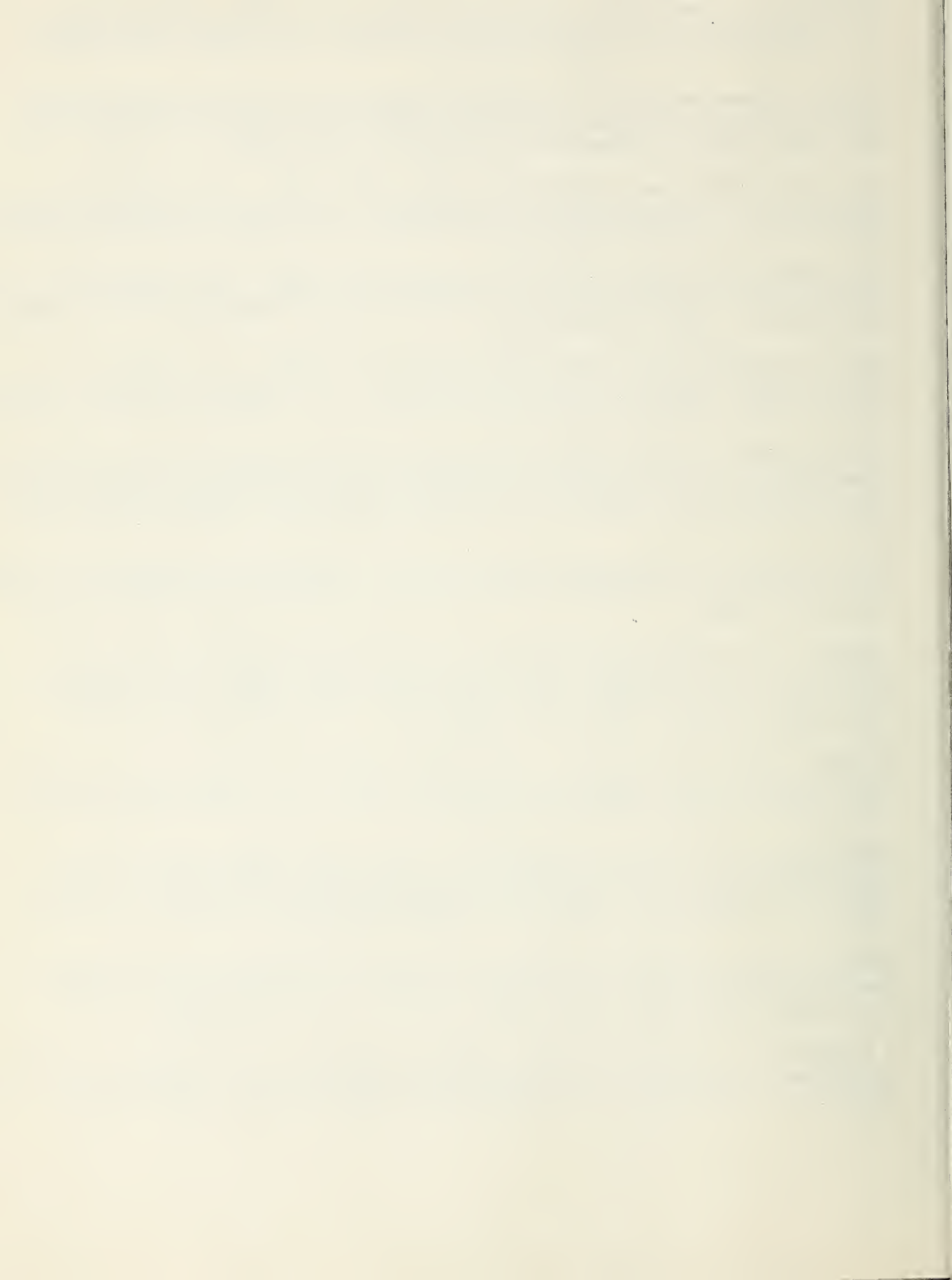
Shipping tests with precooled Valencia oranges in half-box size fiberboard cartons from Southern Calif. to New York. Aug. & Spt. 1952. E. M. Harvey, E. P. Atrops, H. W. Hruschka and J. A. Scanlon. U. S. Dept. Agr. H.T.&S. Office Rept. No. 283. 20 pp. Dec. 1952.

Shipping tests with California mature-green tomatoes, fall 1951. W. R. Barger, B. A. Friedman, W. A. Radspinner and L. L. Morris. U. S. Dept. Agr. H.T.&S. Office Rept. No. 286. 20 pp. Nov. 1952.

Comparison of floor type with overhead electric type refrigerator car fans in the precooling and transit refrigeration of California table grapes. Sept. 1952. W. H. Redit, A. L. Ryall, D. B. Hannum and H. W. Hruschka. U. S. Dept. Agr. H.T.&S. Office Rept. No. 288. 33 pp. Feb. 1953.

Tests of railroad protective services for winter shipments of Maine potatoes. Dec. 1952 to Feb. 1953. W. H. Redit, J. M. Lutz, J. Kaufman and H. Findlen. U. S. Dept. Agr. H.T.&S. Office Rept. No. 297. 29 pp. June 1953.

A comparison of protective services commonly used for rail shipments of Florida oranges and grapefruit. J. R. Winston, H. W. Hruschka, R. H. Cubbedge and G. A. Meckstroth. U. S. Dept. Agr. H.T.&S. Office Rept. No. 305. 37 pp. 1953.



The fan car-fables and facts. H. B. Johnson. The Texas Citrus and Vegetable Growers and Shippers - 1954 Yearbook. pp. 151.

Comparison of ventilation and icing services for early-crop seed potatoes, North Dakota to Florida, September 1953. J. C. Hansen, H. Findlen and J. R. Winston. U. S. Dept. Agr. AMS-42, 11 pp. 1955.

Precooling and refrigerating of sweet corn. J. M. Lutz and J. R. Winston. Proc. 10th Natl. Conf. on Handling Perishable Agricultural Commodities. Purdue Univ. pp. 175-178. 1956.

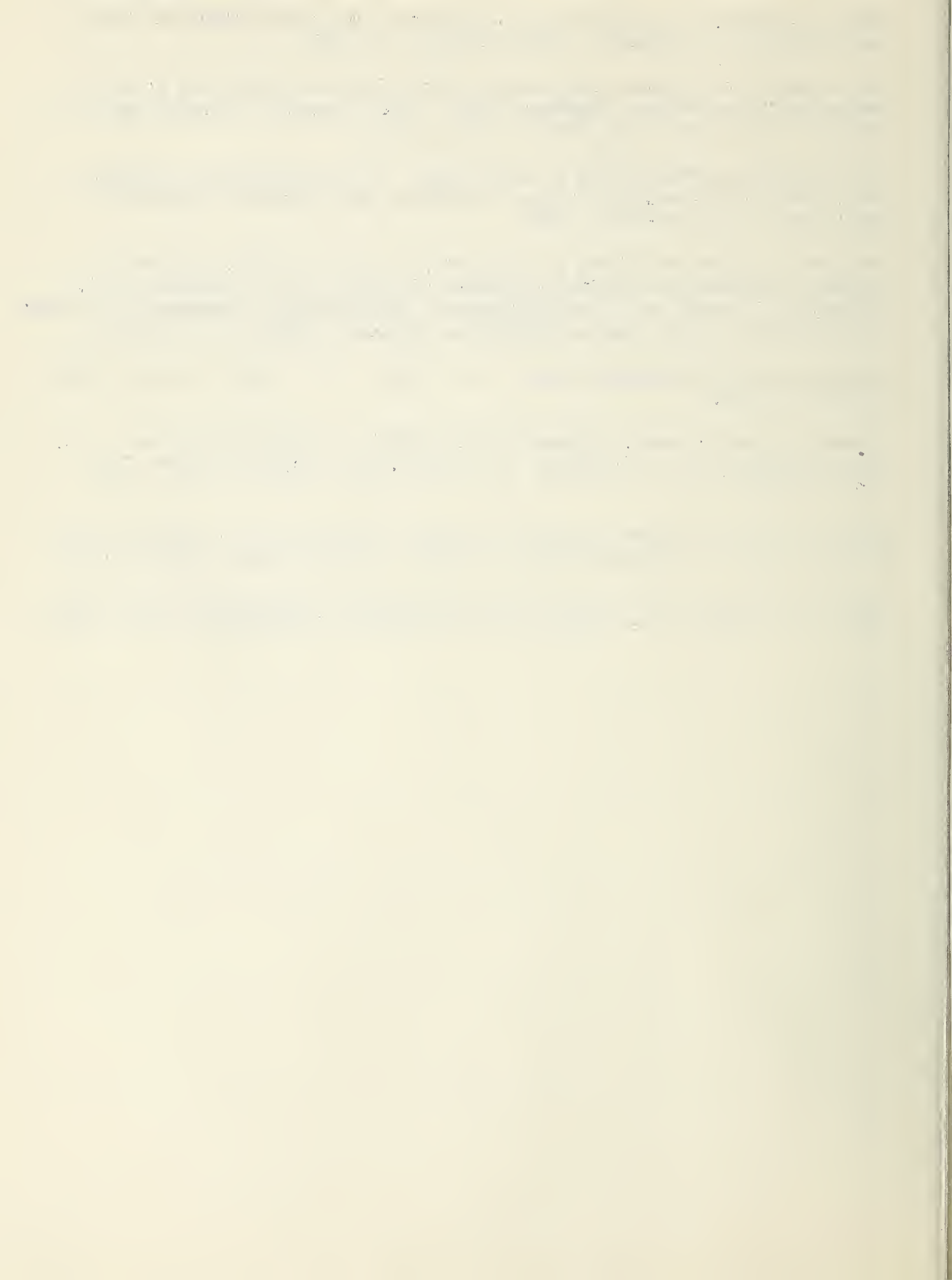
Preliminary tests on effects of load pattern, sidewall flues and fans on transit temperatures in winter shipments of apples. H. A. Schomer, T. R. Wright, M. A. Smith and W. A. Radspinner. Proc. 7th Ann. Northwest Perishable Loss Prevention Short Course, Yakima and Wenatchee, Wash. pp. 15, 1956.

Operating fans in stationary cars. J. M. Lutz. U. S. Dept. Agr. Agr. Mktg. 2(11):19. 1957.

Operating fans in cars of produce after arrival at terminal markets. J. M. Lutz, H. Findlen and J. Kaufman. U. S. Dept. Agr. Mktg. Res. Rept. 206. 9 pp. 1957.

Heater tests with winter shipments of Maine potatoes by rail. January and February 1954. W. H. Redit and J. M. Lutz. U. S. Dept. Agr. AMS-7. 1955.

Transportation test with tomatoes from South Texas to New York. May 13-21, 1946. J. M. Lutz, C. O. Bratley and J. S. Wiant. AAR-USDA-Test No. 3, 1946.





REFRIGERATOR CARS AND EQUIPMENT - OTHER (Car construction, side wall flues, draft gears, heaters, ice bunkers, etc.).

Refrigerator car surface temperatures. W. V. Hukill. Refrig. Engin. pp. 223-233. April 1932.

Investigations on the precooling and transportation of Florida citrus fruit. 1939-40. J. R. Winston, E. D. Mallison and C. O. Bratley. U. S. Dept. Agr. H.T.&S. Office Rept. 49. 141 pp. Aug. 1940.

Investigations on the transportation of Florida potatoes. Tests conducted from Elkton, Florida to New York, N.Y., May 1940. D. F. Fisher and D. H. Rose. U. S. Dept. Agr. H.T.&S. Office Rept. No. 54. 14 pp. Dec. 1940.

Investigations on the precooling and transportation of Florida celery. 1940. D. F. Fisher and D. H. Rose. U. S. Dept. Agr. H.T.&S. Office Rept. No. 55. 28 pp. Dec. 1940.

Investigations on the precooling and transportation of Florida citrus fruit. 1940-41 season. J. R. Winston and C. O. Bratley. U. S. Dept. Agr. H.T.&S. Office Rept. No. 79. 6 pp. Dec. 1941.

Investigations on the transportation of tomato plants from Georgia to New Jersey and Pennsylvania - 1943. E. V. Miller, W. D. Moore, T. M. Whiteman. U. S. Dept. Agr. H.T.&S. Office Rept. No. 133. 19 pp. Nov. 1943.

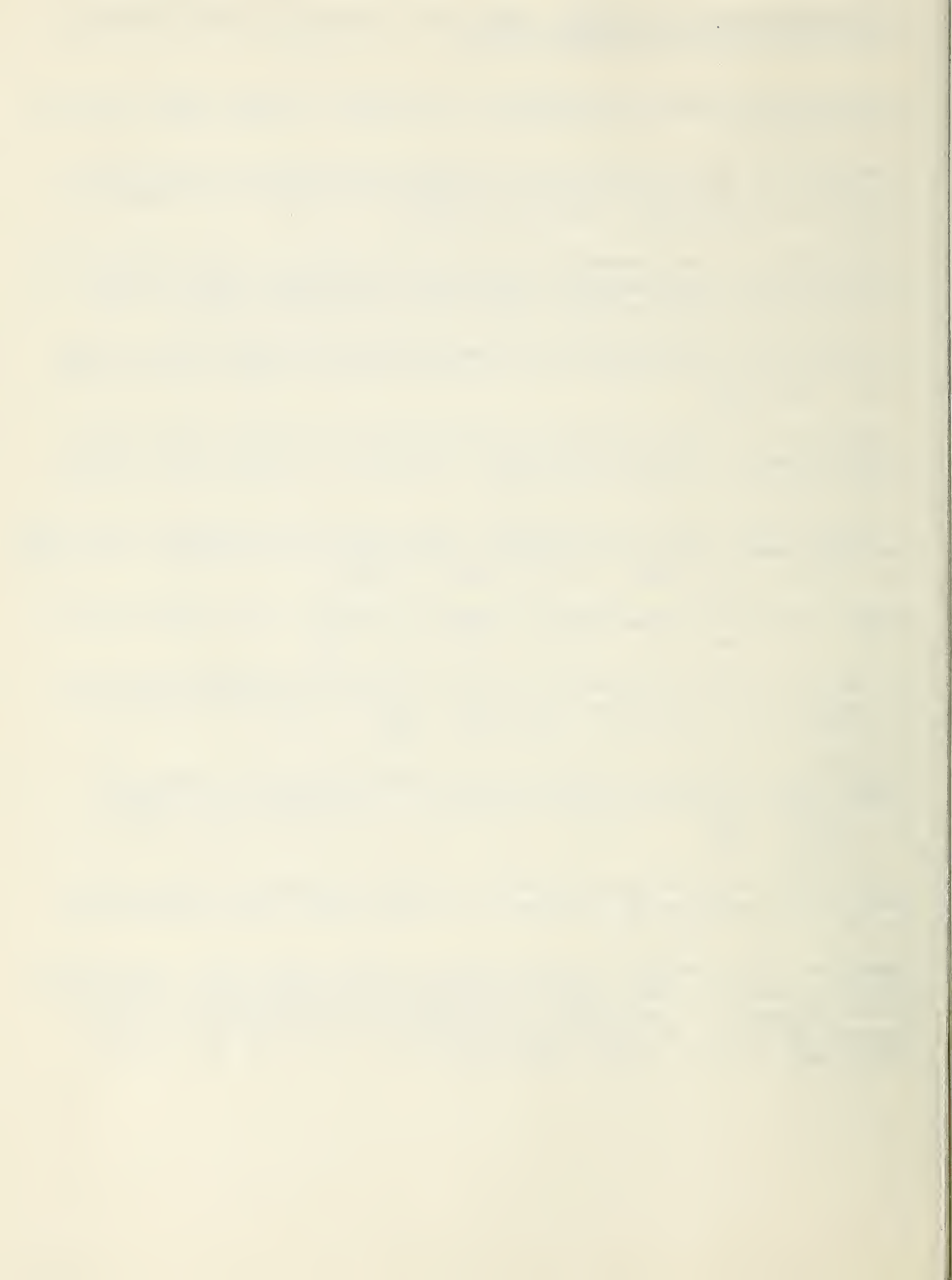
Stage icing in the refrigeration of oranges in transit. E. A. Gorman and W. V. Hukill. U. S. Dept. Agr. Tech. Bul. 857: 37 pp. 1943.

Air and car structure temperatures in iced and salted refrigerator cars prior to loading. W. V. Hukill and F. Gerhardt. Refrig. Engin. Vol. 47, No. 7. July 1944 and Ice and Refrig. 107(2):19-21, 1944.

Cooperative refrigeration shipping tests of Washington Navel oranges from Tulare County, California to New York, 1944. E. M. Harvey, G. L. Embree, W. T. Pentzer and C. O. Bratley. U. S. Dept. Agr. H.T.&S. Office Rept. No. 144. 24 pp. 1944.

An evaluation of precooling and transit protective services for Texas citrus fruit. A. L. Ryall and G. B. Ramsey. U. S. Dept. Agr. H.T.&S. Office Rept. No. 159. 44 pp. Aug. 1945.

Report on a transportation test with Delicious apples under heater service from Wenatchee, Wash. to Jersey City, New York City and Philadelphia: A comparison of the performance of two types of refrigerator cars and five kinds of car heaters, Jan. 1946. F. Gerhardt and H. English. U. S. Dept. Agr. H.T.&S. Office Rept. No. 167. 18 pp. Feb. 1946.



A supplement to the report on a transportation test with Delicious apples under heater service from Wenatchee, Wash. to Jersey City, New York City, and Philadelphia: A study of the test fruit used in the transportation work. Jan. 1946. Fisk Gerhardt. U. S. Dept. Agr. H.T.&S. Office Rept. No. 167A, 5 pp. March 1946.

Shipping tests with Washington Navel oranges under controlled and standard ventilation and ice refrigeration from Tulare County and southern California. Nov. & Dec., 1945-1946. E. M. Harvey, W. T. Pentzer, C. O. Bratley, G. B. Ramsey, J. R. MacRill and J. A. Scanlon. U. S. Dept. Agr. H.T.&S. Office Rept. No. 170. 31 pp. April 1946.

Tests on the transportation of cantaloups with special reference to top-icing and refrigerator car design. 1945. W. T. Pentzer and W. R. Barger. U. S. Dept. Agr. H.T.&S. Office Rept. No. 171. 33 pp. April 1946.

Salting practices in fan and overhead basket bunker cars loaded with pre-cooled cherries. F. Gerhardt and A. L. Ryall. U. S. Dept. Agr. H.T.&S. Office Rept. No. 173. 22 pp. July 1946.

Tests with top-iced lettuce and carrots in fan cars, Aug-Sept. 1946. W. T. Pentzer, C. O. Bratley and W. R. Barger. U. S. Dept. Agr. H.T.&S. Office Rept. No. 178. 12 pp. Oct. 1946.

Transportation test with grapefruit from Florida to New York. C. O. Bratley and P. L. Harding. AAR and U.S.D.A. Test No. 1. May 2-6, 1946.

Tests on the refrigeration of grapes in transit with special references to car design and top icing. 1945. W. T. Pentzer, W. R. Barger, G. B. Ramsey, and C. O. Bratley. Blue Anchor 23(3):12, 16, 37-38. 1946.

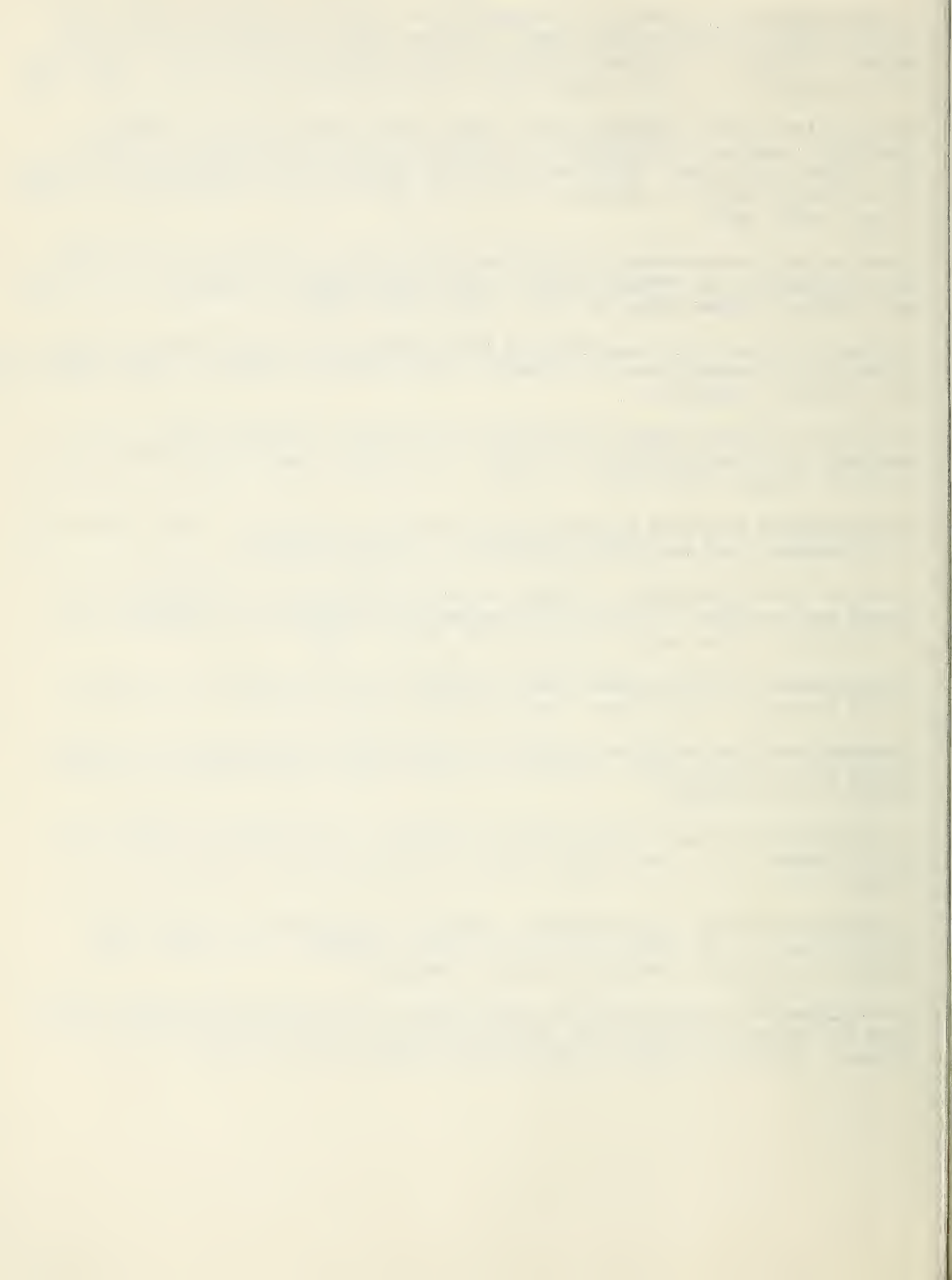
Transportation test with mature-green tomatoes. W. R. Barger, C. O. Bratley and D. H. Dewey. AAR-U.S.D.A. Report 10. Nov. 1946.

Transportation test with warm grapefruit shipped from Harlingen, Tex. to Pittsburgh, Pa. and points East. April 23 to May 1, 1947. W. H. Redit. AAR-USDA Test No. 16. May 1947.

Report of tests on the transportation of grapes. W. R. Barger, E. Snyder, and W. T. Pentzer. U. S. Dept. Agr. H.T.&S. Office Rept. No. 177, 20 pp. Oct. 1946.

Transportation test with cantaloups. Brawley, California to New York City. W. T. Pentzer, D. H. Dewey, E. P. Atrops and J. Kaufman. U. S. Dept. Agr. H.T.&S. Office Rept. No. 182. 23 pp. June 1947.

A comparison of riding quality of refrigerator cars loaded with bananas shipped from New Orleans, Louisiana, to Chicago, Illinois, July 1948. Nov. 1948. W.T. Pentzer. U. S. Dept. Agr. H.T.&S. Office Rept. No. 196. 14 pp.





Tests on the shattering of grapes in transit in shipments made from California to New York in August, September, and November 1948. W. T. Pentzer, W. R. Barger and J. Kaufman. U. S. Dept. Agr. H.T.&S. Office Rept. No. 207. 34 pp. Feb. 1949.

Transportation test with potatoes under heater and ventilation service - Grand Forks, N. D. to points in Texas - April 1949. W. H. Redit and J. M. Lutz. U. S. Dept. Agr. H.T.&S. Office Rept. No. 209. 25 pp. June 1949.

Refrigerator car preheating tests comparing alcohol, end bunker charcoal and underslung charcoal heaters, Grand Forks, N. D., February and March 1950. J. M. Lutz, V. Reubelt, H. Findlen and A. D. Edgar. U. S. Dept. Agr. H.T.&S. Office Rept. No. 230. 14 pp. Sept. 1950.

Fruit temperatures in commercial northwestern apple shipments protected with automatic alcohol heaters during January and February 1951. T. R. Wright and E. Smith. U. S. Dept. Agr. H.T.&S. Office Rept. No. 249. 22 pp. May 1951.

Influence of loading temperature of potatoes, type and number of heaters and type of car on potato transit temperatures. E. Grand Forks, Minn. to Chicago, Ill. - Jan. H. Findlen, P. H. Heinze and J. M. Lutz. U. S. Dept. Agr. H.T.&S. Office Rept. No. 251. 39 pp. July 1951.

Transportation test with lemons from Southern California to New York, August 1951. E. M. Harvey, E. P. Atrops, J. Kaufman and J. R. MacRill. U. S. Dept. Agr. H.T.&S. Office Rept. No. 260. 39 pp. Oct. 1951.

Mechanical refrigeration in the transportation of perishable food. W. H. Redit. Food Tech. 6:86-90, 1951.

Rail refrigeration test with Florida citrus. Nov. 1950. J. R. Winston, R. Cubbage, H. W. Hruschka and G. A. Meckstroth. U. S. Dept. Agr. H.T.&S. Office Rept. No. 277. 34 pp. June 1952.

Transportation test with lemons and oranges in 1/2-box size fiberboard cartons from Southern Calif. to New York - July 1952. E. M. Harvey, E. P. Atrops, W.A. Radspinner and H. W. Hruschka. U. S. Dept. Agr. H.T.&S. Office Rept. No. 281. 48 pp. Sept. 1952.

Rail refrigeration tests with Florida citrus: A comparison of refrigerator cars. J. R. Winston and J. Kaufman. U. S. Dept. Agr. H.T.&S. Office Rept. No. 282. 14 pp. Oct. 1952.

Shipping tests with precooled Valencia oranges in half-box size fiberboard cartons from Southern Calif. to New York. Aug. & Sept. 1952. E. M. Harvey, E. P. Atrops, H. W. Hruschka and J. A. Scanlon. U. S. Dept. Agr. H.T.&S. Office Rept. No. 283. 20 pp. Dec. 1952.

104

Comparison of floor type with overhead electric type refrigerator car fans in the precooling and transit refrigeration of California table grapes. Sept. 1952. W. H. Redit, A. L. Ryall, D. B. Hannum and H. W. Hruschka. U. S. Dept. Agr. H.T.&S. Office Rept. No. 288. 33 pp. Feb. 1953.

Tests of railroad protective services for winter shipments of Maine potatoes. Dec. 1952 to Feb. 1953. W. H. Redit, J. M. Lutz, J. Kaufman and H. Findlen. U. S. Dept. Agr. H.T.&S. Office Rept. No. 297. 29 pp. June 1953.

Precooling South Carolina peaches in 1953. W. H. Redit, and M. A. Smith. U. S. Dept. Agr. H.T.&S. Office Rept. No. 306. 25 pp. 1953.

Tests on hydrocooling and refrigeration of peaches in transit from Georgia and South Carolina, 1954. W. H. Redit, M. A. Smith and P. L. Benfield. U. S. Dept. Agr. AMS-62. 24 pp. 1954.

Effects of precooling, salting, carton ventilation and load pattern on temperature, moisture condensation and spoilage in rail shipments of prepackaged Early Black Massachusetts-grown cranberries. H. W. Hruschka, J. Kaufman, W. H. Redit, G. B. Ramsey and E. M. Harvey. U. S. Dept. Agr. AMS-43. 23 pp. 1955.

Precooling and refrigerating of sweet corn. J. M. Lutz and J. R. Winston. Proc. 10th Natl. Conf. on Handling Perishable Agricultural Commodities. Purdue Univ. Pp. 175-178. 1956.

Preliminary tests on effects of load pattern, sidewall flues and fans on transit temperatures in winter shipments of apples. H. A. Schomer, T. R. Wright, M. A. Smith and W. A. Radspinner. Proc. 7th Annual Northwest Perishable Loss Prevention Short Course, Yakima and Wenatchee, Wash. pp. 15. 1956.

Transit refrigeration studies with California prepackaged carrots. W. R. Barger and W. A. Radspinner. U. S. Dept. Agr. AMS-97. 21 pp. 1956.

Melons keep well on track in ventilated cars. J. Kaufman. U. S. Dept. Agr. Marketing Activities 19(5):16. May 1956.

Thermostatic control of fans in a refrigerator car of tomatoes. W. R. Barger, A. L. Ryall and A. A. McKillop. U. S. Dept. Agr. AMS-81. 16 pp. 1956.

A comparison of types of containers, refrigeration, and loads in the transportation of non-precooled navel oranges in half-box fiberboard cartons from central Calif. to Chicago and New York, Dec. 1952 and Jan. 1953. E. M. Harvey, E. P. Atrops, W. A. Radspinner, J. M. Lutz and H. R. Barber. U. S. Dept. Agr. H.T.&S. Office Rept. No. 293. 1953. Reissued as AMS-135. 1956.

Shipping tests with Massachusetts-grown cranberries in conventional refrigerator cars with standard ventilation and in mechanically refrigerated cars. J. Kaufman, P. L. Benfield and P. R. Harding, Jr. U. S. Dept. Agr. AMS-187. 9 pp. 1956.

A railway transportation test with California early potatoes. W. R. Barger and A. A. McKillop. U. S. Dept. Agr. AMS-160. 10 pp. 1957.

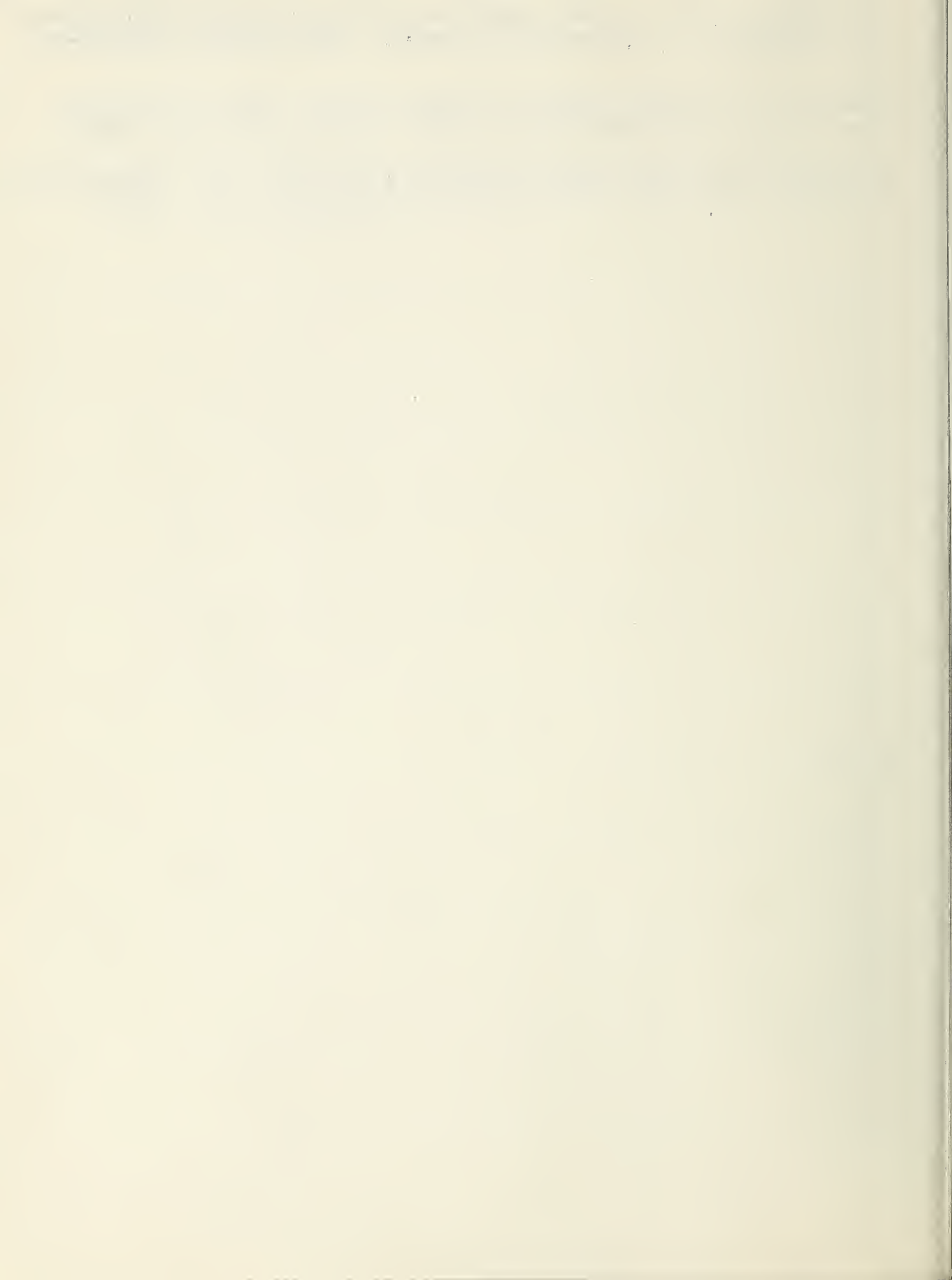




Thermostatic control for fresh perishables in ice-refrigerated railroad cars. A. A. McKillop, L. L. Morris and W. R. Barger. Indust. Refrig. 133(5):15-18, 52. Nov. 1957.

Heater tests with winter shipments of Maine potatoes by rail. January and February 1954. W. H. Redit and J. M. Lutz. U. S. Dept. Agr. AMS-7. 1955.

Transportation test with tomatoes from South Texas to New York. May 13-21, 1946. J. M. Lutz, C. O. Bratley and J. S. Wiant. AAR-USDA-Test No. 3. 1946.



PROTECTIVE SERVICES (Refrigeration, Heating, Ventilation)

The decay of oranges while in transit from California. G. H. Powell et al. U. S. Dept. Agr. BPI Bull. No. 123. 1908.

Preliminary report on transportation and storage of California table grapes. W. T. Pentzer and C. E. Asbury. California Grower. Jan. 1930. pp. 12, 34, 35.

Investigations on the transportation of California table grapes, 1930 season. C. E. Asbury, and W. T. Pentzer. California Grower 3(6): 1931.

Report of refrigerator car heater and ventilation tests made during winter 1930-31. E. D. Mallison. Proc. Pacific Northwest Regional Advisory Board. June 1931.

Refrigeration of European grapes in transit. C. W. Mann and W. O. Cooper. Blue Anchor. April 1932.

Report of tests made during the winter of 1931-32 on operation of car heaters by "inside control." E. D. Mallison. Proc. Pacific Advisory Board. June 1932.

Orange refrigeration in transit. C. W. Mann and W. C. Cooper. Calif. Citrograph 18:191, 202, 203. 1933.

Report of investigations on the transportation of pears and apples by rail from the Pacific Northwest during the winter of 1932-33. E. Smith, E. D. Mallison, E. A. Gorman, W. W. Aldrich and W. V. Hukill. Pacific Northwest Regional Advisory Board Proc. June 1933.

Applying refrigeration and ventilation in transportation of lemons. C. W. Mann, and W. C. Cooper. Calif. Citrograph 19(9):234. 1934.

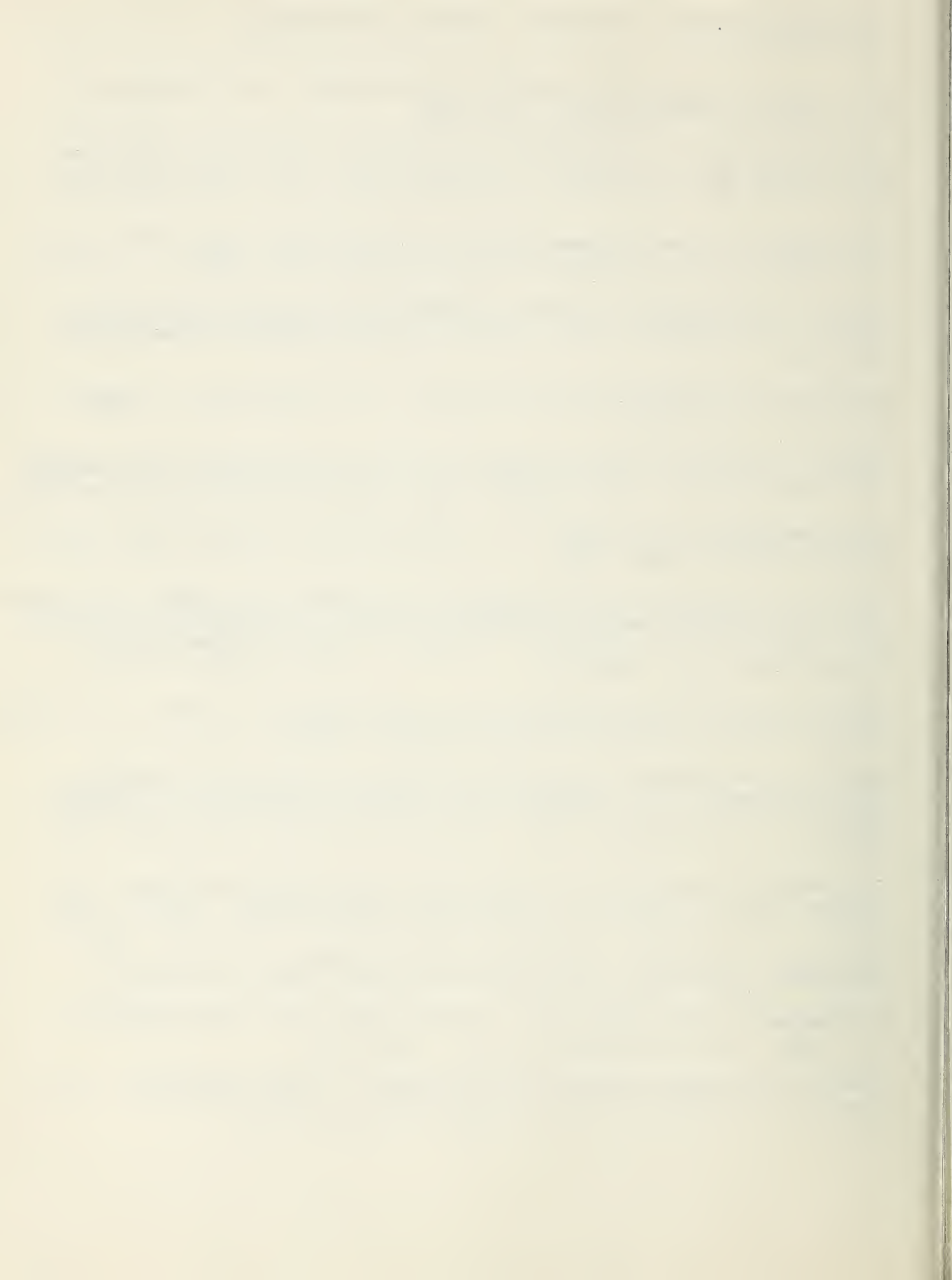
Report of investigations on the transportation of fruit by rail from the Pacific Northwest. E. D. Mallison, E. A. Gorman, E. Smith and W. V. Hukill. Pacific N. W. Advisory Board Proc. June 1934 and U.S.D.A. Mimeo Circ. July 1934.

Refrigerated transportation of Bartlett pears from Pacific Northwest. E. D. Mallison and C. L. Powell. U. S. Dept. Agr. Tech. Bul. 434. 30 pp. 1934.

Methods of refrigeration in transportation of lemons. C. W. Mann. Calif. Citrograph, June 1935, p. 236; and Ice and Refrig. 89:291. Nov. 1935.

Refrigeration versus ventilation of oranges during early spring shipments. C. W. Mann. Calif. Citrograph. P. 122. March 1935.

Transit refrigeration charges on fruit reduced by recent discoveries. D. F. Fisher and C. W. Mann. U.S.D.A. Yearbook 1935. pp. 317-319.



A more economical method of shipping precooled pears. E. D. Mallison. Report of the Pacific Northwest Advisory Board. March 1935.

Precooling and shipping California asparagus. W. T. Pentzer, R. L. Perry, G. C. Hanna, J. S. Wiant and C. E. Asbury. Calif. Agr. Expt. Sta. Bul. 600. 45 pp. 1936.

Refrigeration of oranges in transit from California. C. W. Mann and W. C. Cooper. U.S. Dept. Agr. Tech. Bul. 505. 88 pp. 1936.

Handling, precooling, and transportation of Florida strawberries. D. H. Rose and E. A. Gorman. U. S. Dept. Agr. Tech. Bul. 525: 58 pp. 1936.

The influence of body ice on the freezing of lettuce in transit. E. D. Mallison. New York Packer. March 14, 1936.

Protection of apples and pears in transit from the Pacific Northwest during winter months. E. D. Mallison, E. A. Gorman and W. V. Hukill. U. S. Dept. Agr. Tech. Bul. 550. 54 pp. 1937.

Ice meltage data in refrigerator car test shipments and a new method for determining the same. E. A. Gorman. Ice and Refrig. 92:386-387. 1937.

Summarized report--Tests with dry ice as a supplementary refrigerant for control of Sclerotinia rot of celery in transit. 1936. J. R. Winston, E. V. Miller and G. B. Ramsey. U. S. Dept. Agr. H.T.&S. Office Rept. No. 16. 5 pp. Oct. 1937.

Refrigerator car heating investigation. Suggestions for preventing freezing damage to potatoes while in transit from Aroostook Co., Maine. E. D. Mallison and L. D. Evans. U. S. Dept. Agr. H.T.&S. Office Rept. No. 22. 5 pp. May 1938.

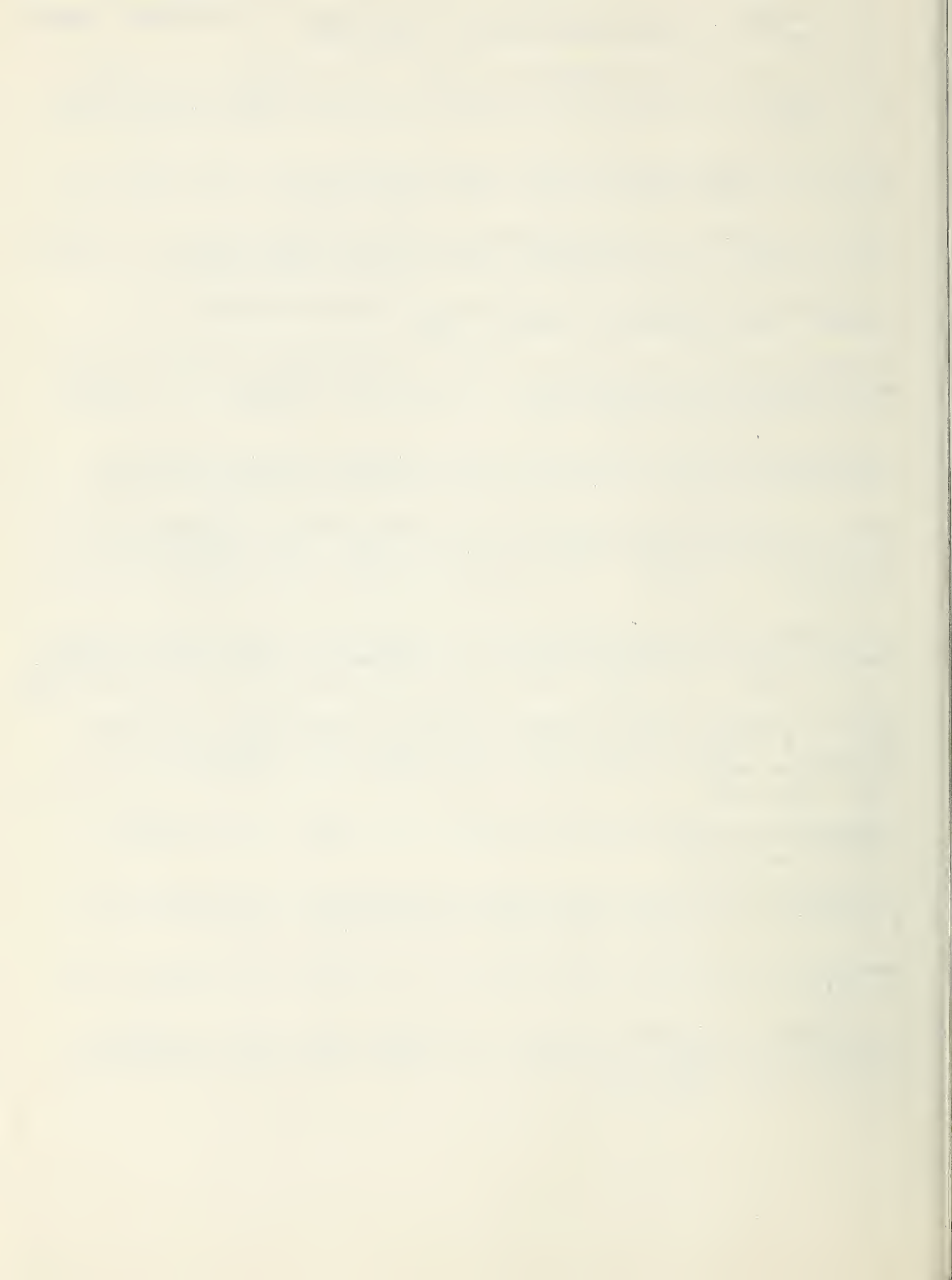
Report on shipping tests with early potatoes from Kern County, California, 1938. W. R. Barger, W. T. Pentzer, G. B. Ramsey, J. S. Wiant, J. H. MacGillivray and R. L. Perry. U. S. Dept. Agr. H.T.&S. Office Rept. No. 27. 16 pp. Oct. 1938.

Refrigeration of citrus fruits in transit. C. W. Mann. Ice and Refrig. 94:213. March 1938.

Body-icing in the transit refrigeration of vegetables. E. D. Mallison and W. T. Pentzer. U. S. Dept. Agr. Tech. Bul. 627. 42 pp. 1938.

Tests with refrigerator car gas heaters. D. F. Fisher. Blue Anchor. P. 9. Jan. 1939.

The relation of shipping methods to the quality of Bosc pears in terminal markets. March 1939. C. L. Powell. U. S. Dept. Agr. H.T.&S. Office Rept. No. 31. 12 pp. March 1939.





Investigations on the precooling and transportation of Florida citrus fruits. 1939. E. D. Mallison. U. S. Dept. Agr. H.T.&S. Office Rept. No. 34. 66 pp. Aug. 1939.

Handling and shipping strawberries without refrigeration. D. F. Fisher and J. M. Lutz. U. S. Dept. Agr. Cir. 515. 16 pp. 1939.

Report of transportation test with lettuce and carrots from Salinas, Calif. to Chicago, Ill., Phila., Pa. and Baltimore, Md., and New York City. Aug. 1939. W. R. Barger. U. S. Dept. Agr. H.T.&S. Office Rept. No. 37. 79 pp. March 1940.

Investigations on the precooling and transportation of Texas grapefruit. March 1940. J. M. Lutz. U. S. Dept. Agr. H.T.&S. Office Rept. No. 40. 14 pp. April 1940.

Investigations on transportation of tomato plants from Georgia, 1940. E. V. Miller and E. A. Gorman. U. S. Dept. Agr. H.T.&S. Office Rept. No. 50. Aug. 1940.

Investigations on the transportation of Florida potatoes. Tests conducted from Elkton, Fla. to New York, N.Y., May 1940. D. F. Fisher and D. H. Rose. U. S. Dept. Agr. H.T.&S. Office Rept. No. 54. 14 pp. Dec. 1940.

Investigations on the precooling and transportation of Florida celery. 1940. D. F. Fisher and D. H. Rose. U. S. Dept. Agr. H.T.&S. Office Rept. No. 55. 28 pp. Dec. 1940.

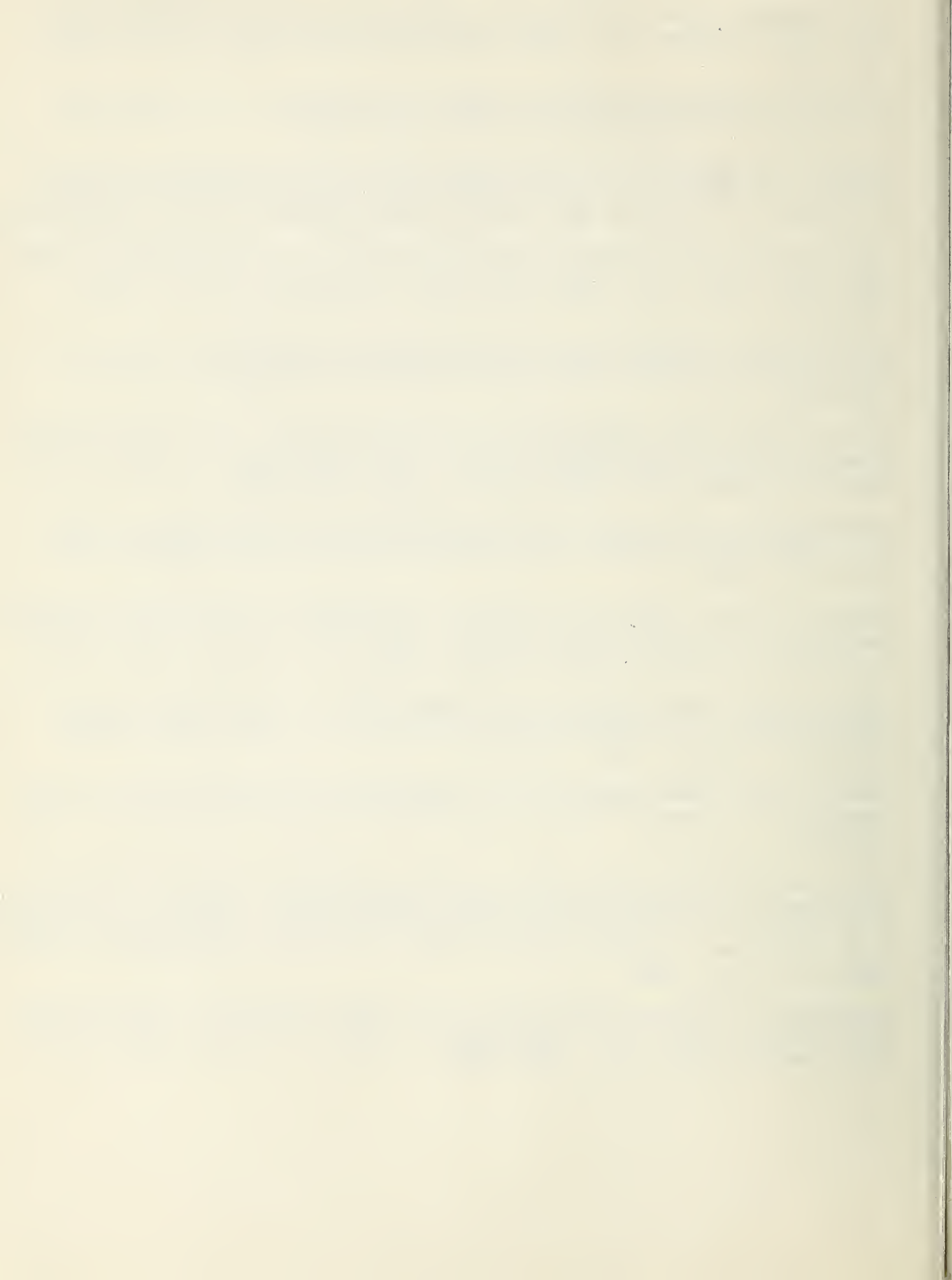
Market quality and condition of California cantaloupes as influenced by maturity, handling, and precooling. W. T. Pentzer, J. S. Wiant, and J. H. MacGillivray. U. S. Dept. Agr. Tech. Bul. 730. 74 pp. 1940.

Investigations on the precooling and transportation of Florida citrus fruit. 1940-41 season. J. R. Winston and C. O. Bratley. U. S. Dept. Agr. H.T.&S. Office Rept. No. 79. 6 pp. Dec. 1941.

Investigations on the precooling and transportation of Florida potatoes. 1941 season. J. R. Winston. U. S. Dept. Agr. H.T.&S. Office Rept. No. 81. 17 pp. Jan. 1942.

Report on experimental work dealing with the precooling, transit refrigeration and ripening of California Bartlett pears during the 1941 season. W. T. Pentzer, C. O. Bratley, A. L. Ryall, J. S. Wiant, F. W. Allen, H. T. Hartman, D. S. Glenn, C. N. McClanahan, C. N. Ely, and W. G. Tufts. U. S. Dept. Agr. H.T.&S. Office Rept. 84. 43 pp. 1942.

Experiments on shipping washed potatoes from central Nebraska to Chicago during July and August 1941. G. B. Ramsey and A. D. Edgar. U. S. Dept. Agr. H.T.&S. Office Rept. No. 85. 13 pp. April 1942.



Refrigeration of Florida precooled oranges in transit. J. R. Winston. U. S. Dept. Agr. H.T.&S. Office Rept. No. 96. 9 pp. Aug. 1942.

Report of transportation test with cantaloupes and honey ball melons from Imperial Valley, Calif. to New York, N. Y. June to July 1942. W. R. Barger, G. Embree and C. W. Mann. U. S. Dept. Agr. H.T.&S. Office Rept. No. 101. 30 pp. 1942.

Experiments on shipping washed potatoes from central Nebraska and Gilcrest, Colorado during July and August, 1942. G. B. Ramsey, J. M. Lutz, and A. D. Edgar. U. S. Dept. Agr. H.T.&S. Office Rept. No. 103. 45 pp. 1942.

Report on experimental work dealing with the precooling transit refrigeration and ripening of California Bartlett pears during the 1942 season. W. T. Pentzer, C. O. Bratley, A. L. Ryall, J. S. Wiant, F. W. Allen, H. T. Hartman, C. N. McClanahan and W. G. Tufts. U. S. Dept. Agr. H.T.&S. Office Rept. No. 114. 25 pp. 1942.

Precooling and transit temperature studies with grapes. W. T. Pentzer. Blue Anchor 19(3):10-16. 1942.

Handling and shipping tests with new potatoes from Kern County, California. W. R. Barger, G. B. Ramsey, R. L. Perry and J. H. McGillivray. Calif. Agr. Exp. Sta. Bul. 664. 24 pp. 1942.

Investigations on the handling and transportation of early potatoes in the East. R. C. Wright, J. M. Lutz and C. O. Bratley. U. S. Dept. Agr. H.T.&S. Office Rept. No. 93. 21 pp. Feb. 1943.

Investigations on the transportation of seed potatoes from Nebraska to Texas and Alabama. A. L. Ryall and J. M. Lutz. U. S. Dept. Agr. H.T.&S. Office Rept. No. 115. 59 pp. Apr. 1943.

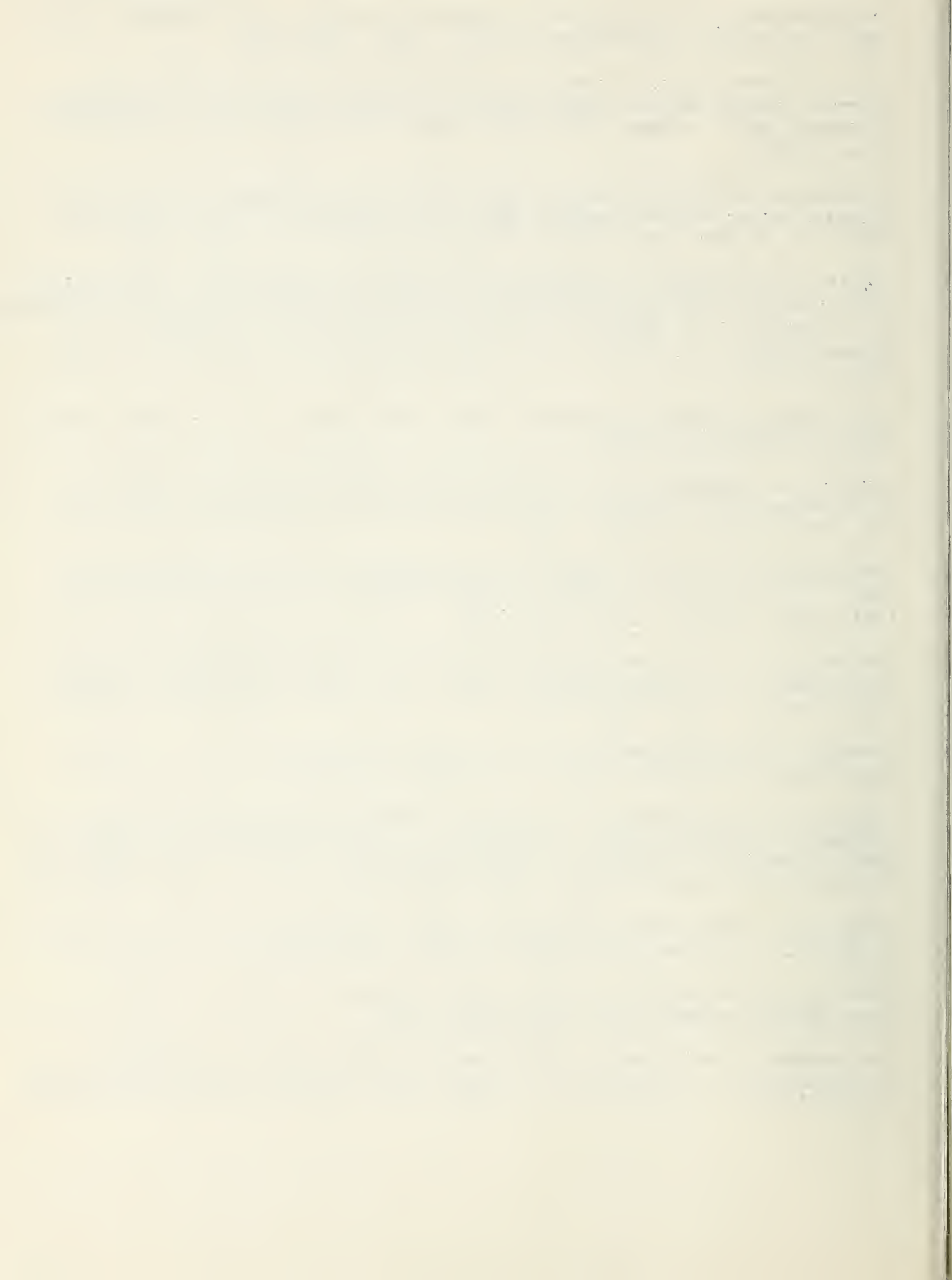
Transit studies with tomatoes. W. R. Barger and L. L. Morris. U. S. Dept. Agr. H.T.&S. Office Rept. No. 124. 17 pp. Mar. 1943.

Report on a transportation test with sweet cherries in refrigerator cars equipped with "Preco" fans: A comparison of salting practices and a study of carbon dioxide gas retention. F. Gerhardt and W. V. Hukill. U. S. Dept. Agr. H.T.&S. Office Rept. No. 134. 23 pp. Nov. 1943.

Stage icing in the refrigeration of oranges in transit. E. A. Gorman and W. V. Hukill. U. S. Dept. Agr. Tech. Bul. 857: 37 pp. 1943.

Handling and transportation studies with Northwestern fruits. E. Smith. Proc. British Columbia Fruit Growers Assn. 1943.

Car precooling of sweet cherries and prunes in Oregon in 1943. F. Gerhardt, H. English and C. O. Bratley. U. S. Dept. Agr. H.T.&S. Office Rept. No. 138. 19 pp. 1944.





Second report on investigations on the transportation of seed potatoes from Nebraska to Texas. A. L. Ryall and J. M. Lutz. U. S. Dept. Agr. H.T.&S. Office Rept. No. 140. 27 pp. April 1944.

Cooperative refrigeration shipping tests of Washington Navel oranges from Tulare County, California to New York, 1944. E. M. Harvey, G. L. Embree, W. T. Pentzer and C. O. Bratley. U. S. Dept. Agr. H.T.&S. Office Rept. No. 144. 24 pp. 1944.

Transportation tests with Georgia-grown tomato plants 1944. E. V. Miller, W. D. Moore, T. M. Whiteman, H. A. Schomer, M. H. Haller, L. P. McColloch, G. L. Roberts and G. P. Rainwater. U. S. Dept. Agr. H.T.&S. Office Rept. No. 148. 60 pp. Oct. 1944.

Experiments on shipping washed early potatoes. G. B. Ramsey, J. M. Lutz, H. O. Werner and A. D. Edgar. Nebraska Agr. Expt. Sta. Bul. 364. 32 pp. 1944.

An evaluation of precooling and transit protective services for Texas citrus fruit. A. L. Ryall and G. B. Ramsey. U. S. Dept. Agr. Office Rept. No. 159. 44 pp. Aug. 1945.

Shipping tests with Washington Navel oranges under controlled and standard ventilation and ice refrigeration from Tulare County and southern California. E. M. Harvey, G. L. Embree, C. O. Bratley, G. B. Ramsey, J. R. MacRill and J. A. Scanlon. U. S. Dept. Agr. H.T.&S. Office Rept. No. 163. 51 pp. Oct. 1945.

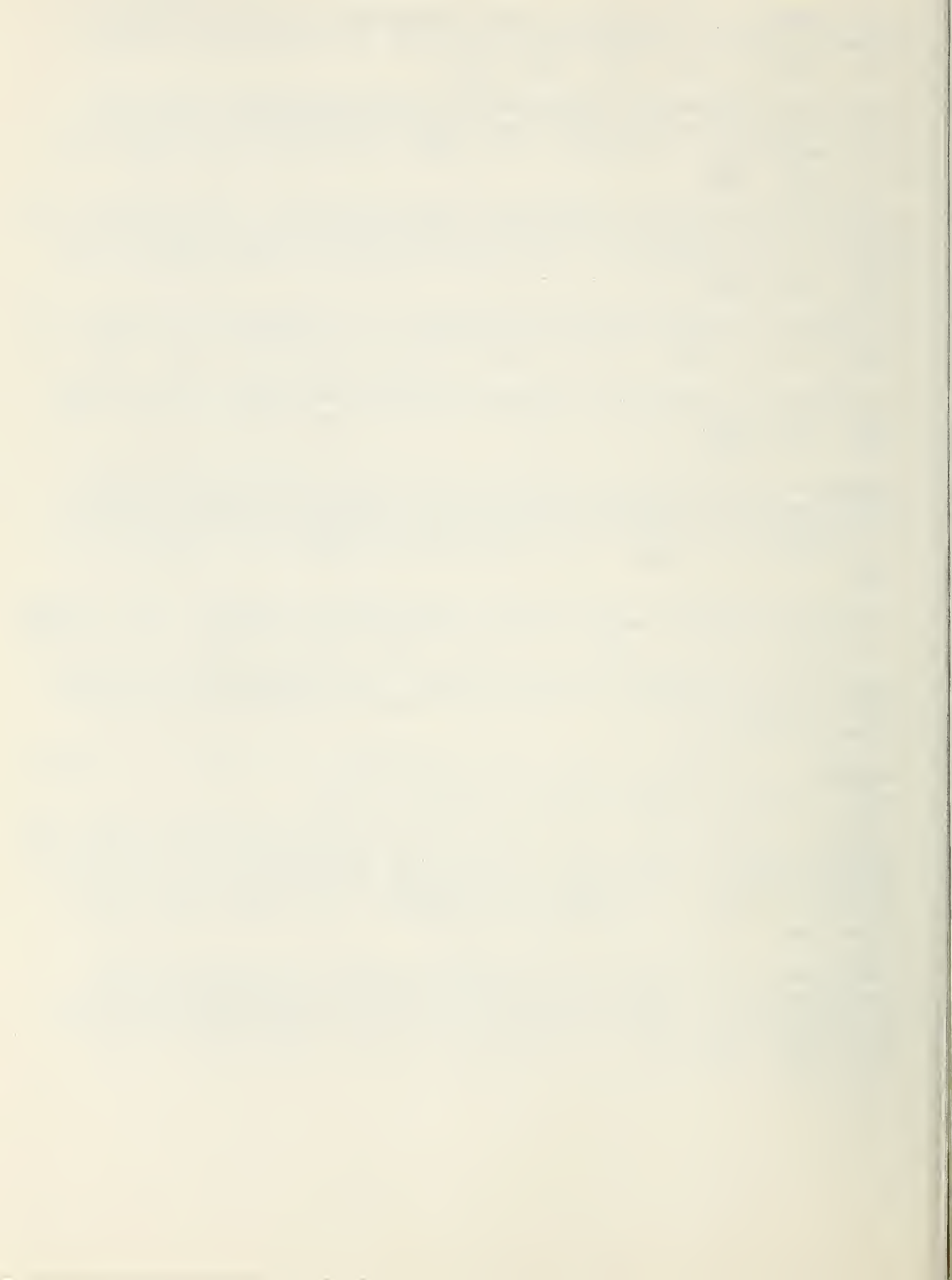
Precooling California grapes and their refrigeration in transit. W. T. Pentzer, C. E. Asbury and W. R. Barger. U. S. Dept. Agr. Tech. Bul. 899. 64 pp. 1945.

Report on test shipments of top-iced melons. W. T. Pentzer and J. S. Wiant. Ice and Refrig. Nov. 1945, p. 23. Also in Pacific Coast Packer and Western Grower and Shipper.

Recording of temperatures shows need of improvement. J. M. Lutz, G. B. Ramsey, and J. S. Cooley. Sweetpotato Jour. 1(4):4-5. 1946.

Report on a transportation test with Delicious apples under heater service from Wenatchee, Wash. to Jersey City, New York City and Philadelphia: A comparison of the performance of two types of refrigerator cars and five kinds of car heaters, Jan. 1946. F. Gerhardt and H. English. U. S. Dept. Agr. H.T.&S. Office Rept. No. 167. 18 pp. Feb. 1946.

A supplement to the report on a transportation test with Delicious apples under heater service from Wenatchee, Wash. to Jersey City, New York City, and Philadelphia: A study of the test fruit used in the transportation work. Jan. 1946. F. Gerhardt. U. S. Dept. Agr. H.T.&S. Office Rept. No. 167A. 5 pp. March 1946.





Tests on the transportation of cantaloups with special reference to top-icing and refrigerator car design. 1945. W. T. Pentzer and W. R. Barger. U. S. Dept. Agr. H.T.&S. Office Rept. No. 171. 33 pp. April 1946.

Tests on the transportation of peaches from Colorado August 1946 from Grand Junction, Colo. to Lincoln, Neb. and Minneapolis, Minn. M. H. Haller. U. S. Dept. Agr. H.T.&S. Office Rept. No. 175. 24 pp. Sept. 1946.

Tests with top-iced lettuce and carrots in fan cars, Aug-Sept. 1946. W. T. Pentzer, C. O. Bratley and W. R. Barger. U. S. Dept. Agr. H.T.&S. Office Rept. No. 178. 12 pp. Oct. 1946.

Handling and shipping early potatoes. D. H. Rose. U. S. Dept. Agr. Circ. 744. 444 pp. 1946.

Transportation test with cantaloups. W. R. Barger, J. S. Wiant and C. O. Bratley. AAR-U.S.D.A. Test No. 5. 1946.

Tests on the refrigeration of grapes in transit with special references to car design and top icing. 1945. W. T. Pentzer, W. R. Barger, G. B. Ramsey, and C. O. Bratley. Blue Anchor 23(3):12, 16, 37-38. 1946.

Transportation test with mature-green tomatoes. W. R. Barger, C. O. Bratley, and D. H. Dewey. AAR-U.S.D.A. Rept. 10. Nov. 1946.

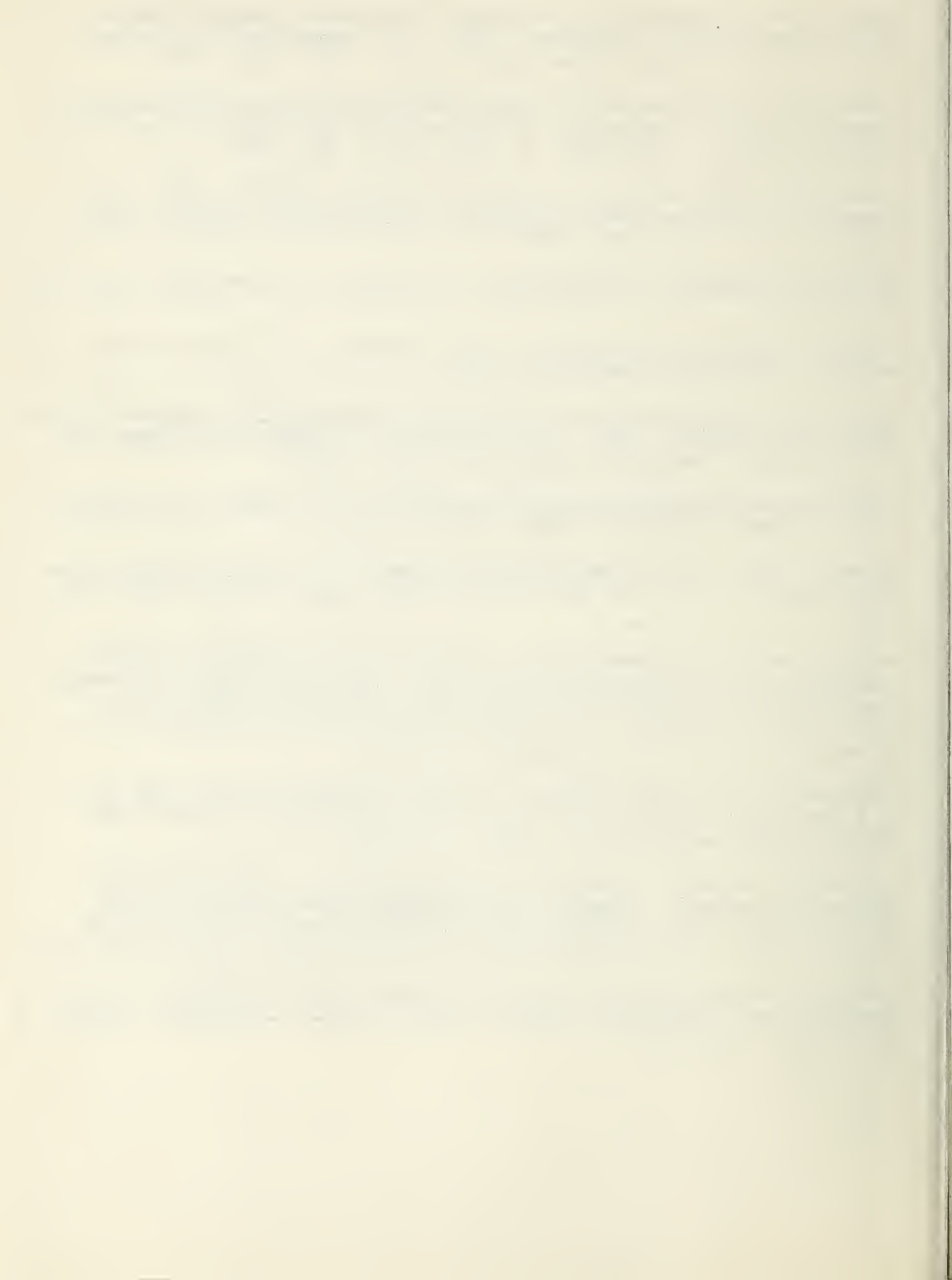
Report of tests on the transportation of grapes. W. R. Barger, E. Snyder and W. T. Pentzer. U. S. Dept. Agr. H.T.&S. Office Rept. No. 177. 20 pp. Oct. 1946.

Shipping tests with Washington Navel oranges under controlled and standard ventilation and ice refrigeration from Tulare County and southern California, Dec. 1946 and Feb. 1947. E. M. Harvey, E. P. Atrops, J. S. Wiant, J. R. MacRill and J. A. Scanlon. U. S. Dept. Agr. H.T.&S. Office Rept. No. 181. 50 pp. May 1947. Also in Citrograph 32(11):474.

Transportation test with cantaloups. Brawley, California to New York City. W. T. Pentzer, D. H. Dewey, E. P. Atrops and J. Kaufman. U. S. Dept. Agr. H.T.&S. Office Rept. No. 182. 23 pp. June 1947.

Car heaters and winter protection of fruit shipments. W. H. Redit, Edwin Smith and F. Gerhardt. Summary of transportation tests with apples from Washington state, Dec. 1946-Jan. 1947. AAR-USDA Tests Nos. 12, 13, 14 and 15. June 1947. Also see AAR Final Report covering these same tests Oct. 1947.

Transportation test with warm grapefruit shipped from Harlingen, Tex. to Pittsburgh, Pa. and points East. April 23 to May 1, 1947. W. H. Redit. AAR-USDA Test No. 16. May 1947.



Transportation test with green-wrap tomatoes shipped from Brentwood District, California, to Jersey City, New Jersey. W. R. Barger, H. W. Hruschka and B.A. Friedman. AAR-USDA Report 31. Nov. 1947.

Shipping tests with Washington Navel oranges under half-stage and full-bunker refrigeration from Tulare County, California. Dec. 1947. E. M. Harvey, E. P. Atrops, J. R. MacRill and W. C. Ward. U. S. Dept. Agr. H.T.&.S. Office Rept. No. 187. 26 pp. March 1948. Also in Calif. Citrograph. Vol. 33. Nos. 8 and 12.

Top-icing cantaloups. W. T. Pentzer, W. R. Barger, D. H. Dewey, J. S. Wiant, and G. B. Ramsey. U. S. Dept. Agr. H.T.&.S. Office Rept. No. 185. 18 pp. Feb. 1948.

Transportation test with White Rose potatoes from Kern County, California to New York City. May 1948. W. R. Barger, M. A. Smith, H. T. Cook and W. A. Radspinner. U. S. Dept. Agr. H.T.&.S. Office Rept. No. 189. 31 pp. June 1948.

Transportation test with White Rose potatoes from Kern County, California to New York City. June 1948. D. H. Dewey, W. T. Pentzer, J. R. Clements, and B. A. Friedman. U. S. Dept. Agr. H.T.&.S. Office Rept. No. 191. 24 pp. July 1948.

Shipping tests with Washington Navel and Valencia oranges under half-stage and full-bunker refrigeration from southern California. May & June 1948. E. M. Harvey, E. P. Atrops, J. Kaufman, J. R. MacRill and J. A. Scanlon. U.S. Dept. Agr. H.T.&.S. Office Rept. No. 193. 29 pp. July 1948.

Transportation test with lemons from southern California to New York. Aug. 1948. E. M. Harvey, E. P. Atrops and H. W. Hruschka. U. S. Dept. Agr. H.T.&.S. Office Rept. No. 195. 40 pp. Sept. 1948. Also in Citrograph 34(4):158. 1948.

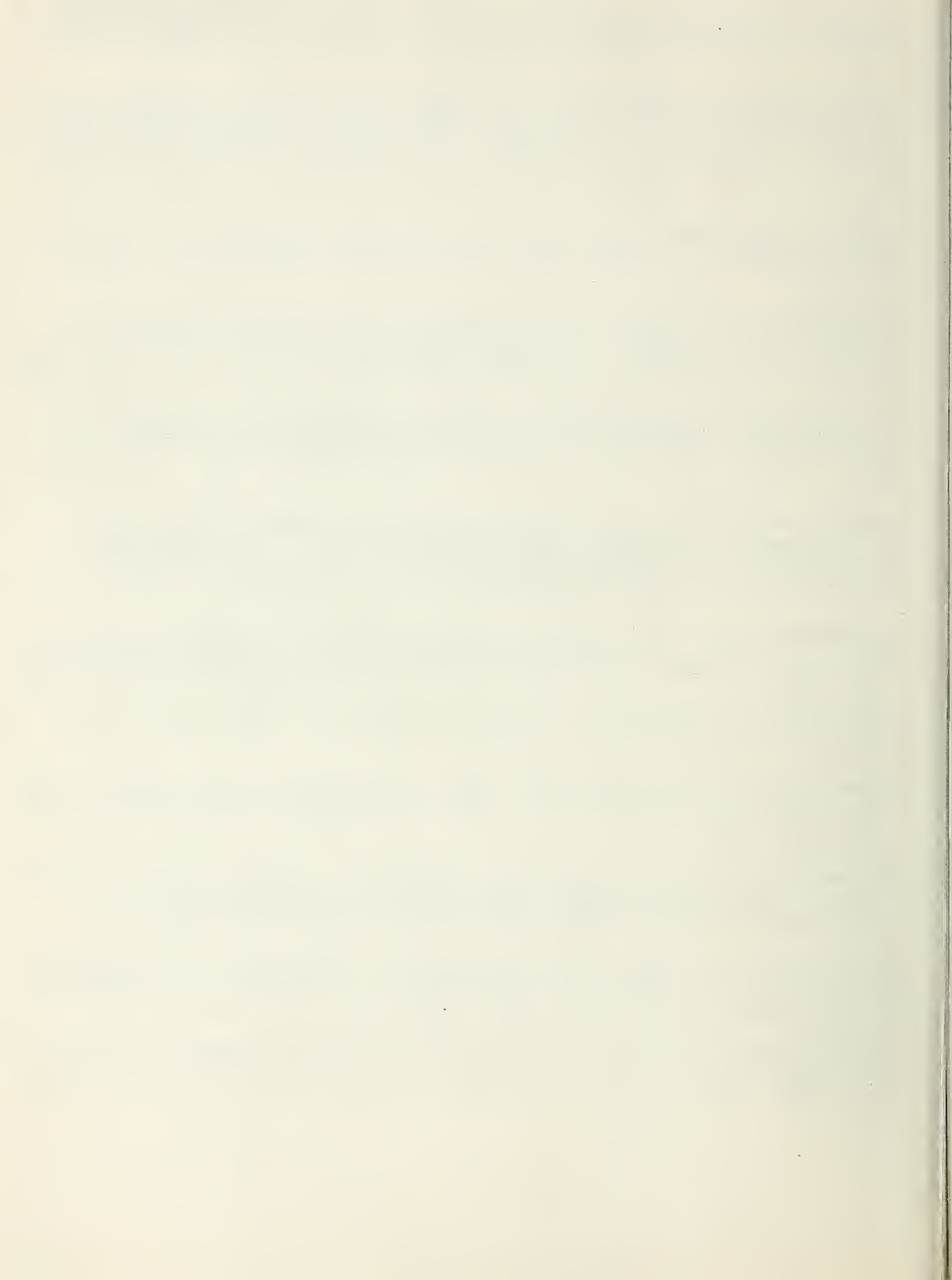
Ripening of pears in fan cars. W. A. Radspinner. U. S. Dept. Agr. H.T.&.S. Office Rept. No. 203. 6 pp. Feb. 1949.

Heater test with apples- Wenatchee, Wash. to Chicago, Ill. Feb. - April, 1949. W. H. Redit and T. R. Wright. U. S. Dept. Agr. H.T.&.S. Office Rept. No. 208. 33 pp. Apr. 1949.

Transportation test with potatoes under heater and ventilation service - Grand Forks, N. D. to points in Texas - April 1949. W. H. Redit and J. M. Lutz. U. S. Dept. Agr. H.T.&.S. Office Rept. No. 209. 25 pp. June 1949.

Transportation test with lemons from southern California to New York, May 1949. E. M. Harvey, E. P. Atrops, W. H. Redit, and B. A. Friedman. U. S. Dept. Agr. H.T.&.S. Office Rept. No. 214. 28 pp. July 1949.

Salting practices in express fan cars loaded with Pacific Northwest cherries. T. R. Wright and D. F. Adams. U. S. Dept. Agr. H.T.&.S. Office Rept. No. 215. 21 pp. Aug. 1949.





Transportation test with early White Rose potatoes from Kern County, Calif. to Chicago, Ill. and New York City, June 1949. W. R. Barger, W. T. Pentzer, and J. Kaufman. U. S. Dept. Agr. H.T.&S. Office Rept. No. 216. 24 pp. Oct. 1949.

Tests on the refrigeration of lemons in transit from California to New York. June & July 1949. E. M. Harvey, E. P. Atrops and B. A. Friedman. U. S. Dept. Agr. H.T.&S. Office Rept. No. 217. 20 pp. Sept. 1949.

Handling and shipping southern-grown tomato plants. E. V. Miller, W. D. Moore, H. A. Schomer, and E. K. Vaughan. U. S. Dept. Agr. Circ. 805. 26 pp. 1949.

Icing tests with California early potatoes. W. R. Barger and W. T. Pentzer. Kern County Potato Growers Assoc. Yearbook. Pp. 86. March 1949.

Ripening pears in fan cars during transit. W. H. Redit, S. E. Womeldorph, W. A. Radspinner and J. S. Wiant. U. S. Dept. Agr. H.T.&S. Office Rept. No. 221. 14 pp. Feb. 1950.

Ripening pears in fan cars at the terminal market. W. A. Radspinner, S. E. Womeldorph, J. S. Wiant and W. H. Redit. U. S. Dept. Agr. H.T.&S. Office Rept. No. 222. 8 pp. March 1950.

Transportation test of underslung charcoal heaters in fan cars with bananas. New Orleans to Winnipeg, Feb. 1950. W. H. Redit and H. T. Cook. U. S. Dept. Agr. H.T.&S. Office Rept. No. 226. 33 pp. June 1950.

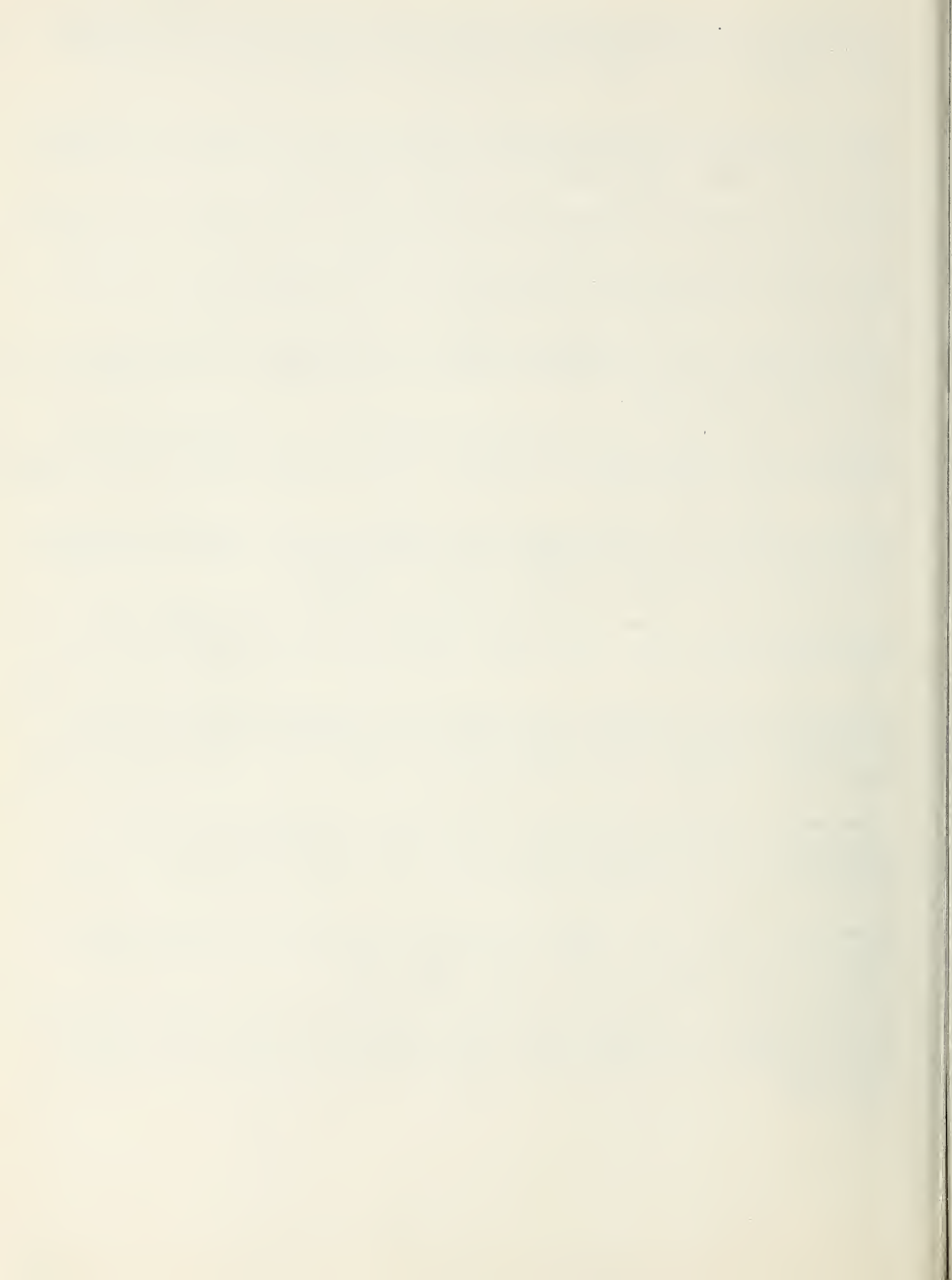
Rail shipping tests with Long Island cauliflower 1949. J. Kaufman, H. W. Hruschka and J. S. Wiant. U. S. Dept. Agr. H.T.&S. Office Rept. No. 228. 7 pp. July 1950.

Refrigerator car preheating tests comparing alcohol, end bunker charcoal and underslung charcoal heaters, Grand Forks, N. D., February and March 1950. J. M. Lutz, V. Reubelt, H. Findlen and A. D. Edgar. U. S. Dept. Agr. H.T.&S. Office Rept. No. 230. 14 pp. Sept. 1950.

A comparison of transit protective services for Bartlett pears during the early part of the shipping season. A. L. Ryall, J. R. Clements, W. A. Radspinner, F. W. Allen and R. W. Harris. U. S. Dept. Agr. H.T.&S. Office Rept. No. 232. 32 pp. Oct. 1950.

Transportation test with lemons and oranges from southern California to New York. E. M. Harvey, E. P. Atrops and W. A. Radspinner. U. S. Dept. Agr. H.T.&S. Office Rept. No. 233. 33 pp. Nov. 1950.

Transit icing tests with Early White Rose potatoes from Kern County, Calif. to New York City, May and June 1950. W. R. Barger, D. H. Dewey, B. A. Friedman and A. L. Ryall. U. S. Dept. Agr. H.T.&S. Office Rept. No. 239. 17 pp. Dec. 1950.





Refrigeration of lemons in transit. E. M. Harvey. Citrograph 35(8):319. 1950.

Effect of storage and transit conditions on the performance of Nebraska grown Triumph seed potatoes shipped in carlots to Texas and Alabama. H. O. Werner, A. L. Ryall and J. M. Lutz. Nebraska Agr. Expt. Sta. Res. Bul. 164: 94 pp. 1950.

Ripening pears in transit in fan cars. March 1951. W. H. Redit, W. A. Radspinner and J. S. Wiant. U. S. Dept. Agr. H.T.&S. Office Rept. No. 234. 20 pp. March 1951.

Transportation test-of heaters in refrigerator cars with bananas, New Orleans to Winnipeg - January 1951. W. H. Redit and P. H. Heinze. U. S. Dept. Agr. H.T.&S. Office Rept. No. 241. 45 pp. April 1951.

Shipping test from south Texas to Jersey City. May 1950. Half stage vs. full bunker refrigeration in fan cars with mature green Texas tomatoes in standard lugs. H. B. Johnson, W. R. Buford, B. A. Friedman and J. S. Wiant. U. S. Dept. Agr. H.T.&S. Office Rept. No. 246. 7 pp. May 1951.

Influence of loading temperature of potatoes, type and number of heaters and type of car on potato transit temperatures. E. Grand Forks, Minn. to Chicago, Ill. Jan. H. Findlen, P. H. Heinze, and J. M. Lutz. U. S. Dept. Agr. H.T.&S. Office Rept. No. 251. 39 pp. July 1951.

Rail shipping tests with Long Island cauliflower-1950. J. Kaufman, H. W. Hruschka and J. S. Wiant. U. S. Dept. Agr. H.T.&S. Office Rept. No. 259. 31 pp. 1951.

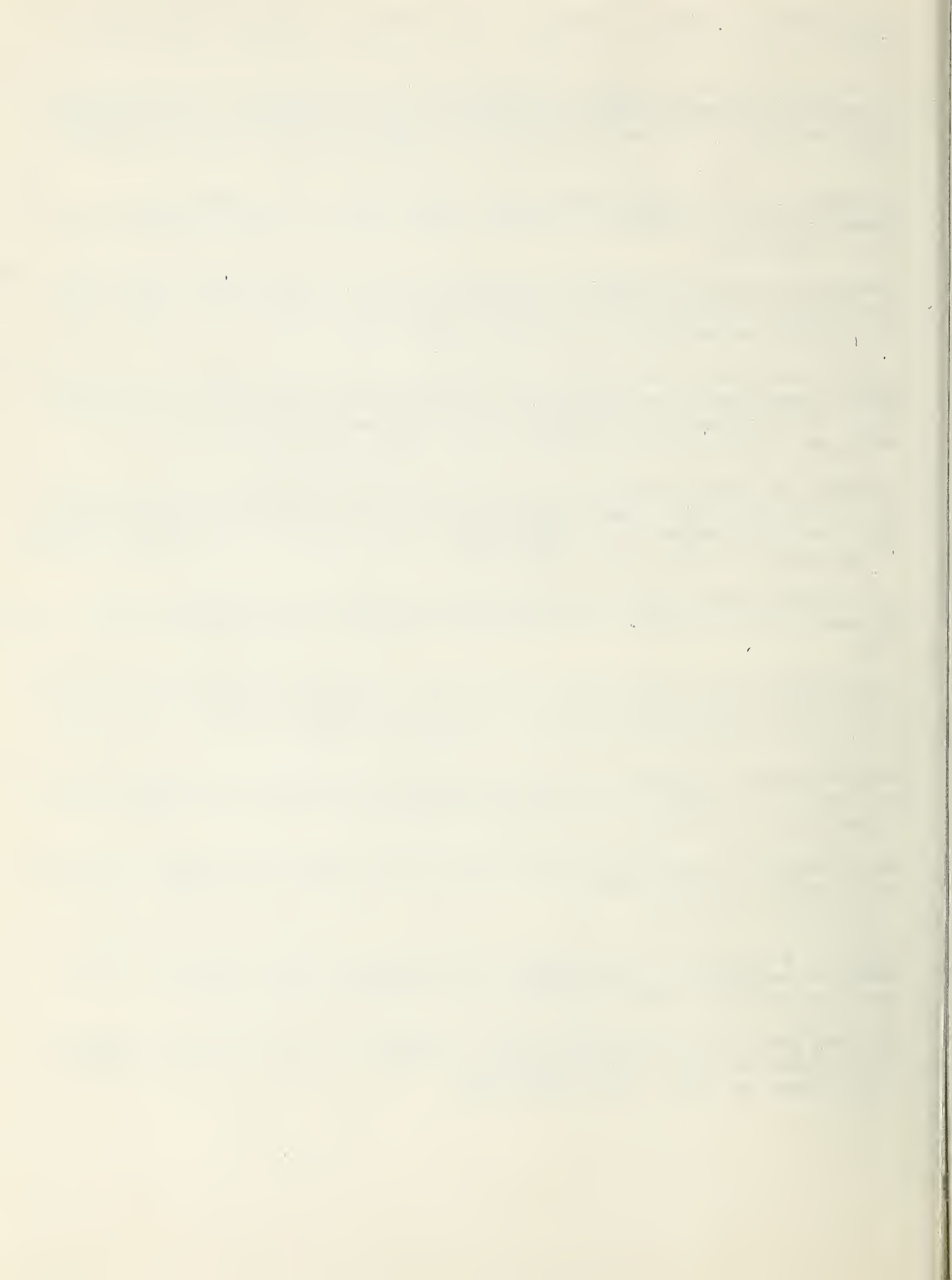
Transportation test with lemons from Southern California to New York, August 1951. E. M. Harvey, E. P. Atrops, J. Kaufman and J. R. MacRill. U. S. Dept. Agr. H.T.&S. Office Rept. No. 260. 39 pp. Oct. 1951.

Further studies of transit protective services for California Bartlett pears. Feb. 1952. A. L. Ryall, W. A. Radspinner and F. W. Allen. U. S. Dept. Agr. H.T.&S. Office Rept. No. 262. 19 pp. Feb. 1952.

Refrigerator car heater test with bananas, New Orleans to Winnipeg. Jan. 1952. W. H. Redit and R. E. Hardenburg. U. S. Dept. Agr. H.T.&S. Office Rept. No. 264. 55 pp. May 1952.

Effect of packing-house treatments, temperature in transit, and containers on decay in tangerines. J. R. Winston, H. W. Hruschka and R. Cubbedge. U. S. Dept. Agr. H.T.&S. Office Rept. No. 263. 36 pp. March 1952.

Shipping and ripening tests with Texas tomatoes, June 1951. H. B. Johnson, R. E. Hardenburg, B. A. Friedman and W. R. Buford. U. S. Dept. Agr. H.T.&S. Office Rept. No. 265. 14 pp. May 1952.



Rail shipping tests with Long Island cauliflower-1951. J. Kaufman, H. W. Hruschka and J. S. Wiant. U. S. Dept. Agr. H.T.&S. Office Rept. No. 268. 11 pp. April 1952.

Effect of hydrocooling and top-icing on temperature reduction in carlot shipments of crated sweet corn. J. R. Winston, R. Cubbedge and J. Kaufman. U. S. Dept. Agr. H.T.&S. Office Rept. No. 270. 16 pp. April 1952.

Transportation tests with early potatoes from Kern County, Calif. to New York City, May 1951. W. R. Barger, J. M. Harvey, W. A. Radspinner and L. L. Morris. U. S. Dept. Agr. H.T.&S. Office Rept. No. 271. 23 pp. April 1952.

Rail refrigeration test with Florida citrus. Nov. 1950. J. R. Winston, R. Cubbedge, H. W. Hruschka and G. A. Meckstroth. U. S. Dept. Agr. H.T.&S. Office Rept. No. 277. 34 pp. June 1952.

Rail refrigeration test with Florida citrus. April 1951. J. R. Winston, R. Cubbedge, H. W. Hruschka and G. A. Meckstroth. U. S. Dept. Agr. H.T.&S. Office Rept. No. 279. 38 pp. Sept. 1952.

Rail refrigeration tests with Florida citrus. May 1951. J. R. Winston, R. Cubbedge, H. W. Hruschka and G. A. Meckstroth. U. S. Dept. Agr. H.T.&S. Office Rept. No. 280. 44 pp. Sept. 1952.

Shipping tests with California mature-green tomatoes, fall 1951. W. R. Barger, B. A. Friedman, W. A. Radspinner and L. L. Morris. U. S. Dept. Agr. H.T.&S. Office Rept. No. 286. 20 pp. Nov. 1952.

Similarity of transit refrigeration problems for tomatoes and lemons. H. B. Johnson. Texas Citrus and Vegetable Growers and Shippers Yearbook, 1952.

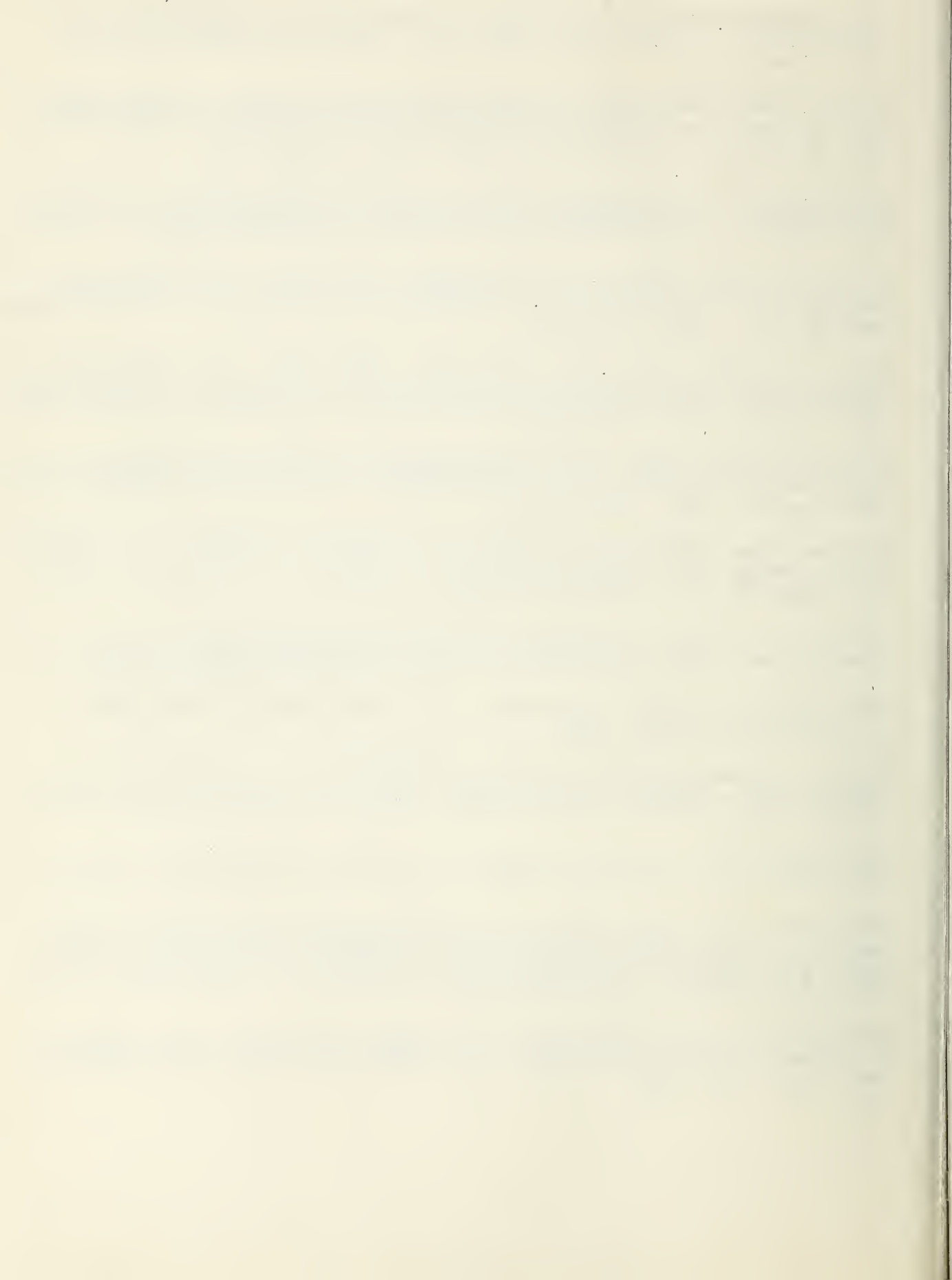
Refrigeration of tomatoes in transit. W. T. Pentzner and L. P. McCulloch. Pre-Pack-Age 6(1):11-14. 1952.

Effect of various treatments of decay in tangerines. J. R. Winston, H. W. Hruschka and R. Cubbedge. Citrus Indus. 33(6):5-6, 13-14; (7):6-7, 13, (8):8-9, 12. 1952.

Cut transit potato losses from Valley. J. M. Lutz. Valley Farmer I(2):8-9. 1951.

Comparison of floor type with overhead electric type refrigerator car fans in the precooling and transit refrigeration of California table grapes. W. H. Redit, A. L. Ryall, D. B. Hannum and H. W. Hruschka. U. S. Dept. Agr. H.T.&S. Office Rept. No. 288. 33 pp. Feb. 1953.

Shipping and ripening tests with Texas tomatoes, June 1952. H. B. Johnson, W. A. Radspinner and G. B. Ramsey. U. S. Dept. Agr. H.T.&S. Office Rept. No. 289. 10 pp. Apr. 1953.





Tests of railroad protective services for winter shipments of Maine potatoes. Dec. 1952 to Feb. 1953. W. H. Redit, J. M. Lutz, J. Kaufman and H. Findlen. U. S. Dept. Agr. H.T.&S. Office Rept. No. 297. 29 pp. June 1953.

Transit and ripening studies with California mature-green tomatoes, Fall 1952. W. R. Barger, W. A. Radspinner, B. A. Friedman and L. L. Morris. U. S. Dept. Agr. H.T.&S. Office Rept. No. 302. 27 pp. 1953. Also released as Calif. Agr. Exp. Sta. Veg. Crops Series No. 58.

A comparison of protective services commonly used for rail shipments of Florida oranges and grapefruit. J. R. Winston, H. W. Hruschka, R. H. Cubbedge and G. A. Meckstroth. U. S. Dept. Agr. H.T.&S. Office Rept. No. 305. 37 pp. 1953.

Little need to re-ice tomato cars. W. R. Barger, W. A. Radspinner, B. A. Friedman and L. L. Morris. West. Grower and Shipper. 25(10):18-22. Sept. 1953.

Transit studies with California fall tomatoes. W. R. Barger. Proc. of Conf. on Transp. of Perishables. Davis, Calif. pp. 147-155. Feb. 1953.

Shipping tests with California tomatoes. W. R. Barger. Fruit & Vegetable Review 15(2):11, 22. May 1953.

Full-bunker vs. half-stage icing for top ice precooled cantaloups. A. L. Ryall and W. A. Radspinner. Western Grower and Shipper. 24(5):54-59. 1953.

Transit and ripening studies with California mature-green tomatoes, fall 1953. W. R. Barger, W. A. Radspinner and L. L. Morris. U. S. Dept. Agr. H.T.&S. Office Rept. no. 317. July 1954. Also released as Cal. Agr. Exp. Sta. Veg. Crops Series No. 66. Reprinted in Pre-Pack-Age 8(5):13-27. Jan. 1955.

Transit refrigeration of carton-packed, vacuum-cooled lettuce during late summer and fall months. A. L. Ryall and W. A. Radspinner. West. Grower and Shipper 25(10):36-39. Sept. 1954.

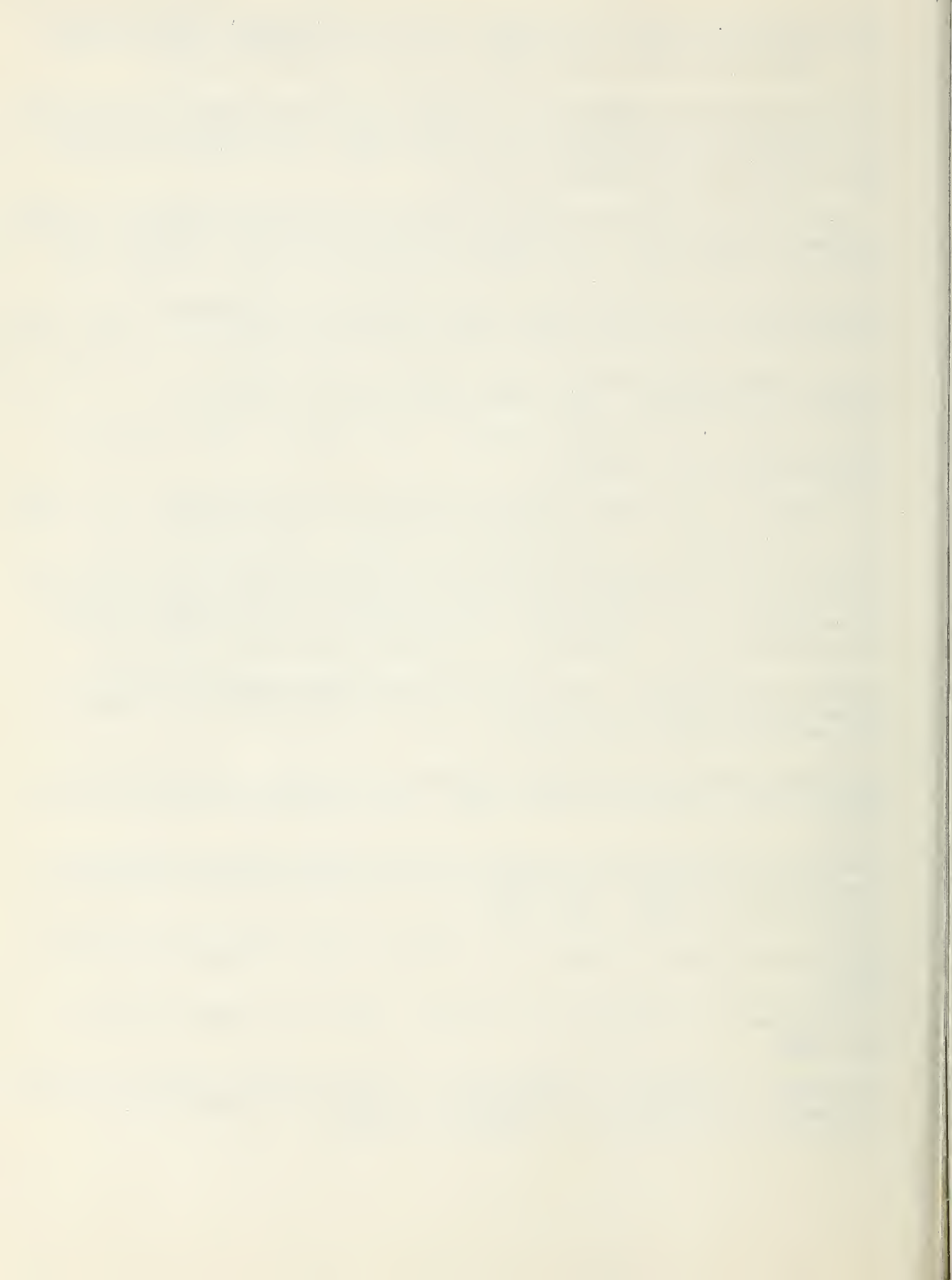
Protecting tomatoes from transit chilling. W. R. Barger. West. Grower and Shipper 25(12):124-126, 130. Nov. 1954. Also Pre-Pack-Age 8(2):17-19, Oct. 1954.

Cooling and transportation problems of citrus fruits packed in fiberboard cartons. E. M. Harvey. Proc. of the Conf. on Transportation of Perishables, Davis, Calif. pp. 54-58. April 1954.

Carton-packed citrus problems. E. M. Harvey. Calif. Citrograph 39:324-326. 1954.

Transit studies on tomatoes. W. R. Barger. Fruit & Veg. Review 16(8):20. Nov. 1954.

Maintenance of intermediate temperatures in tomato cars and effect on condition of tomatoes on arrival. W. R. Barger. Proc. Conf. on Transportation of Perishables, Davis, Calif. pp. 106-108. Apr. 1954.





Transit protective services for Bartlett pears from the early California districts. A. L. Ryall. Blue Anchor, 31(3):6-7. Aug. 1954.

How to use transit time to eliminate ripening problems with California Bartlett pears. A. L. Ryall. The Advisory Board for the Promotion of Fresh California Bartlett Pears. 3 pp. 1954.

Winter lettuce precooling, transit refrigeration tests. A. L. Ryall, J. Kaufman, and W. R. Barger. West. Grower and Shipper. 25(13):16-21. Dec. 1954.

Precooling and transit temperatures of western lettuce. A. L. Ryall. Proc. Conf. on the Transportation of Perishables, Davis, Calif. pp. 89-93. Apr. 1954.

Improvements in methods of handling and shipping pears. W. T. Pentzer. Proc. Northwest Perishable Loss Prevention Conference, Portland, Ore. pp. 43-44. Feb. 1954.

Comparison of ventilation and icing services for early-crop seed potatoes, North Dakota to Florida, September 1953. J. C. Hansen, H. Findlen and J. R. Winston. U. S. Dept. Agr. AMS-42. 11 pp. 1955.

Loading methods and protective services for winter shipments of Maine potatoes by rail.(abstract) H. W. Hruschka and W. H. Redit. Natl. Potato Utilization Conf. Proc. 7:16-19. Aug. 1956.

Shipping temperatures for tomatoes. L. P. McColloch and W. R. Barger. U. S. Dept. Agr. PA-290. 3 pp. 1956.

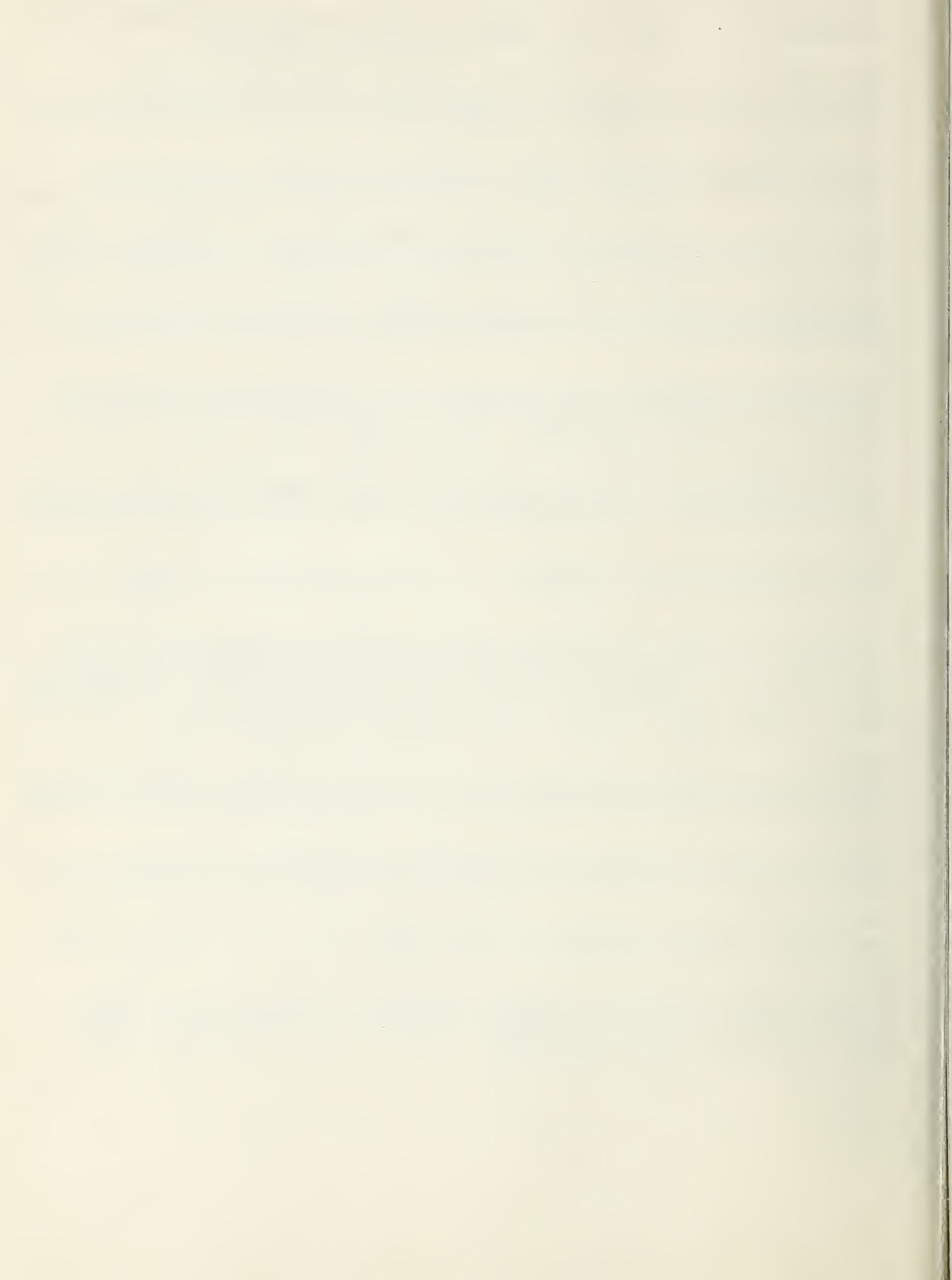
A comparison of types of containers, refrigeration, and loads in the transportation of non-precooled navel oranges in half-box fiberboard cartons from central Calif. to Chicago and New York, Dec. 1952 and Jan. 1953. E. M. Harvey, E. P. Atrops, W. A. Radspinner, J. M. Lutz and H. R. Barber. U. S. Dept. Agr. H.T.&S. Office Rept. No. 293. 1953. Reissued as AMS-135. 1956.

The effects of bunker salting, dry ice, and air circulation on temperatures in express shipments of fresh strawberries. A. L. Ryall. Proc. Conf. on Transp. of Perishables. Asilomar, Calif. pp. 73-86. April 10-12, 1956.

Transit refrigeration studies with prepackaged carrots. W. R. Barger. Proc. Conf. on Transp. of Perishables. Asilomar, Calif. pp. 50-56. Apr. 1956.

How packaged carrots respond to transit refrigeration. W. R. Barger. Fruit and Vegetable Review. 18(3):12-13. June 1956.

Hydrocooling and shipping prepackaged carrots from Texas. H. B. Johnson. Yearbook Texas Citrus & Veg. Growers & Shippers. pp. 139-140, 142. 1956. Also in Tenth Natl. Conf. on Handling Perishable Agr. Commodities. Purdue Univ. pp. 155-159. Mar. 12-16, 1956.



Problems of maintaining quality in lettuce during marketing. A. L. Ryall West. Grower and Shipper 27(5):15, 40-41. May 1956.

Tests of modified protective services in the transportation of honey dew melons from Calif. to New York City, 1955 and 1956. H. K. Pratt, L. L. Morris, A. L. Ryall and B. A. Friedman. Univ. of Calif. Veg. Crop Series No. 90. 15 pp. 1957.

Transit temperatures in carloads of pears with various icing schedules. H. A. Schomer. Eighth Ann. Northwest Perishable Loss Prevention Short Course Syllabus, Medford, Ore. pp. 23-29. Feb. 1957.

A railway transportation test with California early potatoes. W. R. Barger and A. A. McKillop. U. S. Dept. Agr. AMS-160. 10 pp. 1957.

Transit refrigeration studies with White Rose potatoes in various shipping containers. A. L. Ryall and W. R. Barger. Kern Co. Potato Growers Assoc. Yearbook 13:55, 57, 59, 61, 63. 1957.

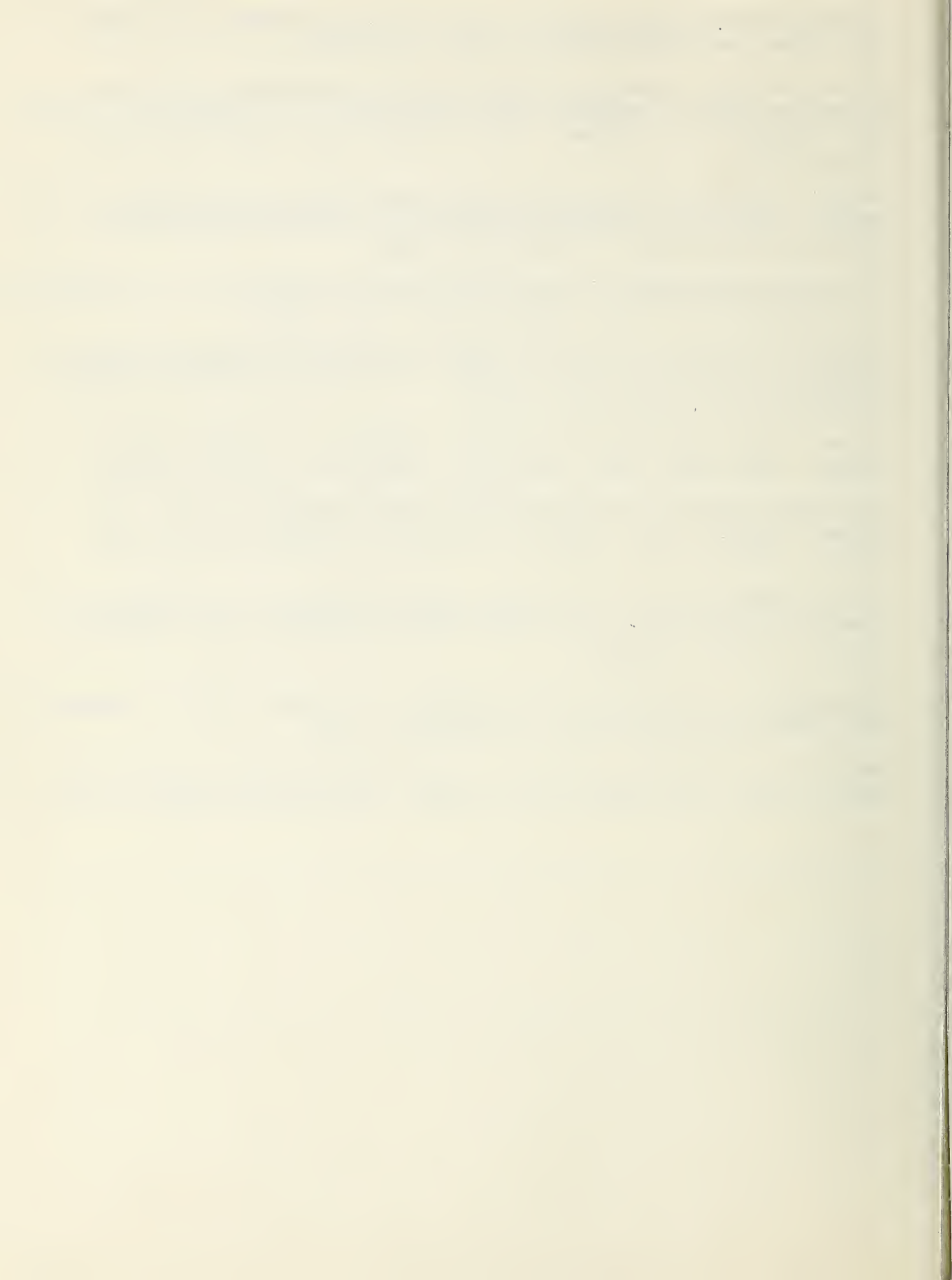
Transportation of potatoes for chipping. (Abstract) H. Findlen and J. C. Hansen. Potato Util. Conf. Proc. 8:33. Albany, Cal. Aug. 21-23, 1957.

Recommended icing for Rio Grande Valley tomatoes shipped by rail. H. B. Johnson. Yearbook Texas Citrus & Veg. Growers & Shippers. pp. 154, 156 and 158. 1957.

Transit refrigeration of mature-green tomatoes shipped by rail from Lower Rio Grande Valley of Texas. H. B. Johnson and D. W. Newsom. U. S. Dept. Agr. AMS-188. 12 pp. June 1957.

Refrigeration of California early potatoes. A. L. Ryall. 9th Ann. Yearbook, Kern County Potato Growers Assoc. March 1953. 5 pp.

Heater tests with winter shipments of Maine potatoes by rail. January and February 1954. W. H. Redit and J. M. Lutz. U. S. Dept. Agr. AMS-7. 1955.



TRANSPORTATION BY RAIL - GENERAL

Refrigerator cars. Outline of investigations by the U. S. Dept. of Agriculture in fruit and vegetable transportation. W. V. Hukill and D. F. Fisher. Refrig. Engin. 30 (2) pp. 75-78, 104-105. 1935.

Precooling and the refrigeration of fruits and vegetables in transit. D. F. Fisher. Refrig. Engin. June 1938.

Factors influencing efficient and economical refrigeration of citrus fruit in transit. C. W. Mann. Proc. Pac. Coast Advisory Board 1939.

Shipping tests with limes under refrigeration. 1942. C. O. Bratley and J. R. Winston. U. S. Dept. Agr. H.T.&S. Office Rept. No. 95. 5 pp. Aug. 1942.

Handling and transportation studies with Northwestern fruits. E. Smith. Proc. British Columbia Fruit Growers Assn. 1943.

Shipping tests with Georgia-grown tomato plants, 1945. E. V. Miller, H. A. Schomer and W. D. Moore. U. S. Dept. Agr. H.T.&S. Office Rept. No. 160. 4 pp. Aug. 1945.

Performance tests on refrigerator cars. W. T. Pentzer. Food Tech. 3:410-415. 1949. Also in Proc. 88th Meeting Southeast Shippers Advisory Board, Dec. 8, 1949.

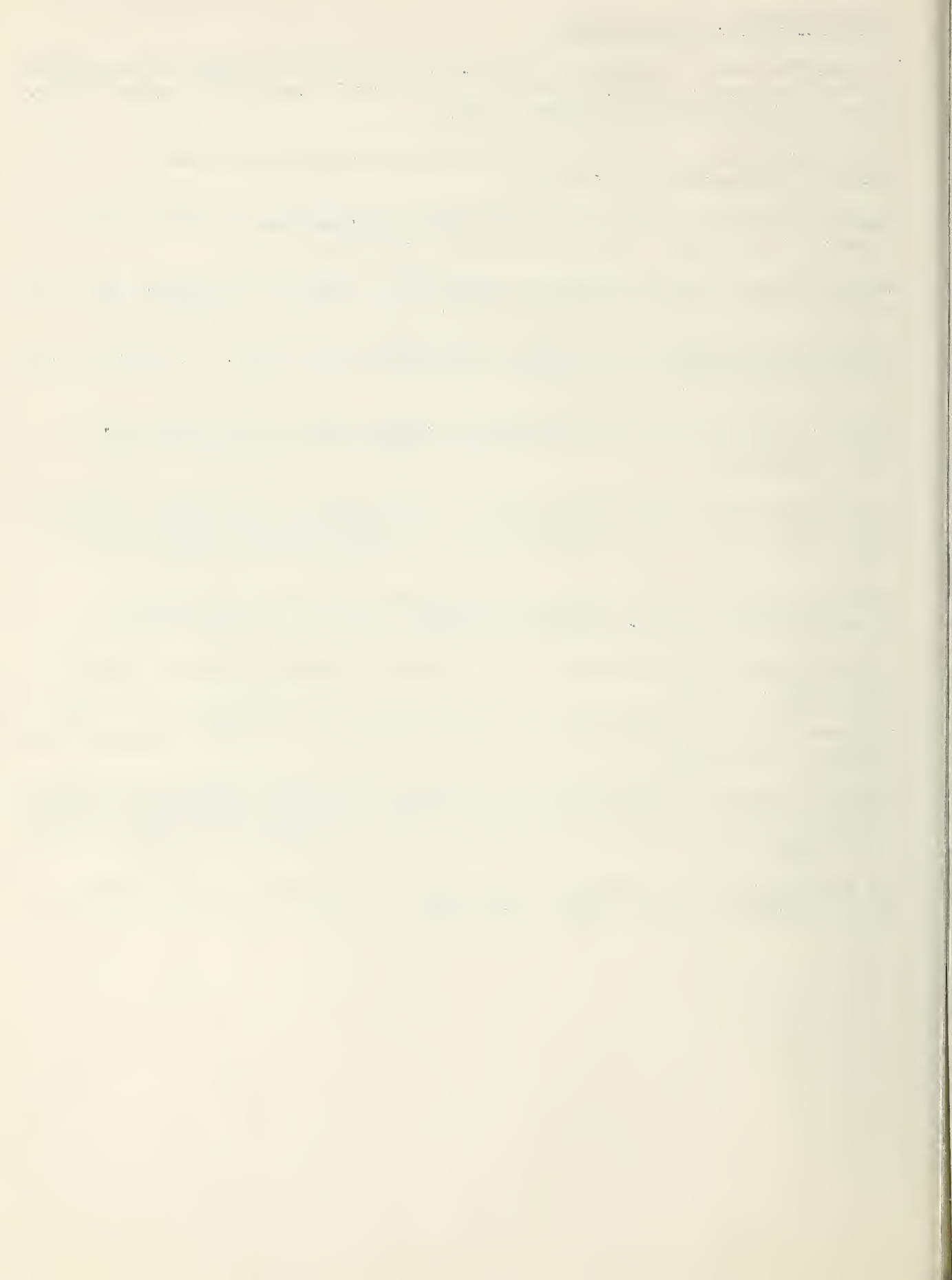
Refrigerator cars. D. F. Fisher. Refrigerating Data Book, Applications Volume, 3rd Ed. Chapter 22: 251-265. 1950.

Icing practices for cantaloups. W. T. Pentzer. Western Grower and Shipper 20:19, 48-50. 1949.

The precooling and transportation of sweet cherries. E. Smith. Montana State Hort. Soc. Nov. 1949.

Effect of handling, transportation and storage on external quality of potatoes. H. Findlen and J. M. Lutz. Proc. 4th Ann. Conf. on Potato Utilization, Denver, Colo. Aug. 1952.

The transportation of potatoes. W. H. Redit. Proc. 5th Natl. Pot. Utiliz. Conf., Beltsville, Md. pp. 6-8. Nov. 1953.





## TRUCK TRANSPORTATION

Handling and shipping strawberries without refrigeration. D. F. Fisher and J. M. Lutz. U. S. Dept. Agr. Circ. 515. 16 pp. 1939.

Investigations on the precooling and transportation of Florida citrus fruit. 1939-40. J. R. Winston, E. D. Mallison and C. O. Bratley. U. S. Dept. Agr. H.T. & S. Office Rept. No. 49. 141 pp. Aug. 1940.

Sweet corn shipping tests. June 1948. M. Lieberman and H. A. Schomer. U. S. Dept. Agr. H. T. & S. Office Rept. 204. 1949, also in Canning Trade 71 (52): 12. 1949 and Ice and Refrig. 117 (3):44. Sept. 1949.

Temperature and quality records for sweetpotato truck shipments, 1950-51 season. L. J. Kushman, G. B. Ramsey, M. A. Smith and W. R. Wright. U. S. Dept. Agr. H.T. & S. Office Rept. No. 254. 9 pp. July 1951.

The suitability of Kennebec and Sebago potato varieties for shipping and chipmaking when grown near Charleston, S. C. L. J. Kushman, W. A. Radspinner, M. A. Smith and W. M. Epps. U. S. Dept. Agr. H.T. & S. Office Rept. 255. 5 pp. Aug. 1951.

A comparison of various types of truck shipments of washed non-dried Early Irish potatoes from Camden, N. C. to New York, N. Y. 1950 season. L. J. Kushman, W. A. Radspinner and J. M. Johnson. U. S. Dept. Agr. H.T. & S. Office Rept. No. 257. 18 pp. Aug. 1951.

Transportation of frozen citrus concentrate by railroad and motor truck from Florida to northern markets. W. H. Redit, H. D. Johnson and R. Cubbedge and J. Kaufman. Agr. Inf. Bul. No. 26. June 1951.

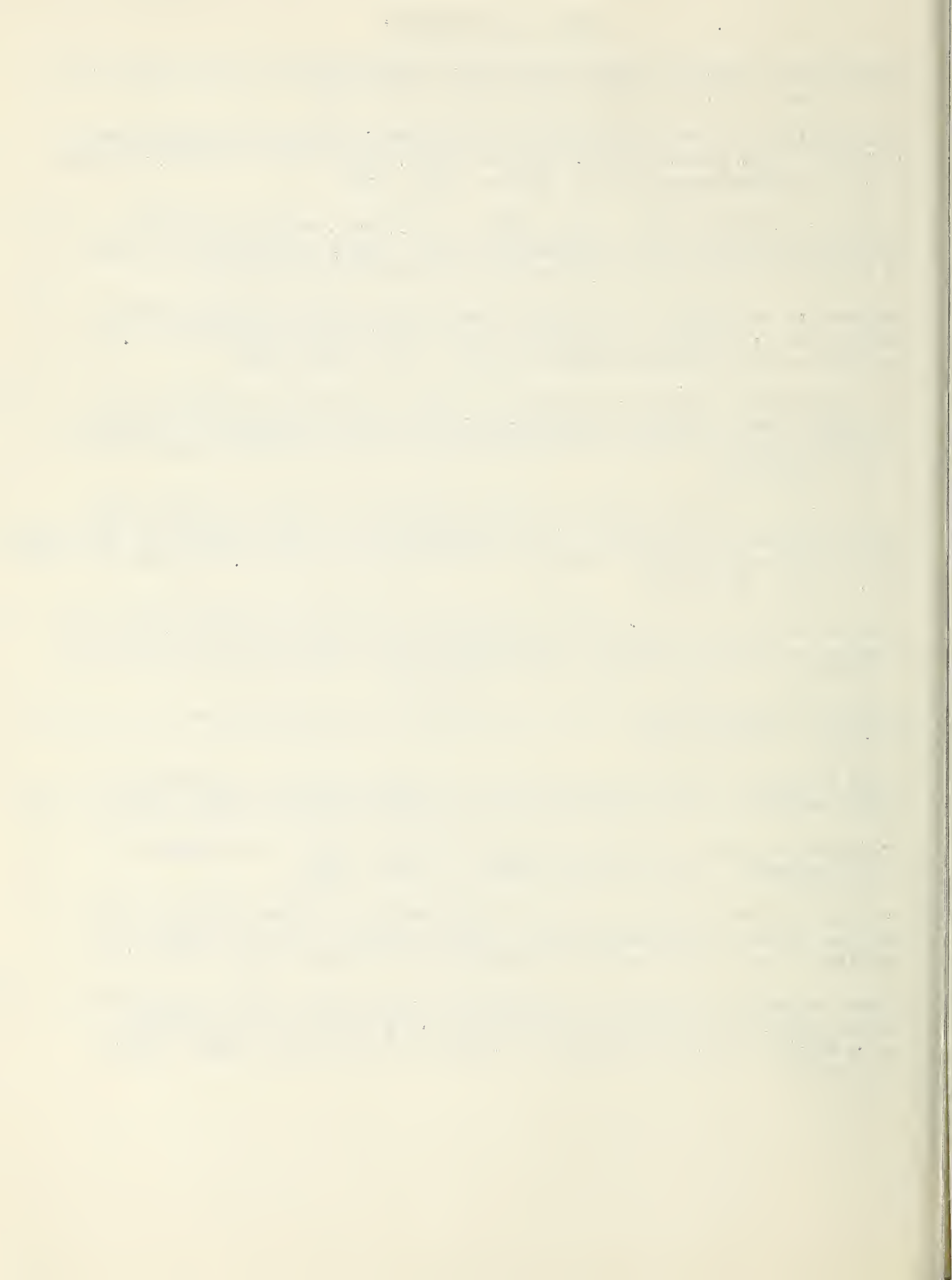
Mechanical refrigeration in the transportation of perishable food. W. H. Redit. Food Tech. 6:86-90, 1951.

Truck shipping tests with Long Island cauliflower 1950-52. J. Kaufman and H. W. Hruschka. U. S. Dept. Agr. H.T. & S. Office Rept. No. 291. 14 pp. 1953.

Truck shipping tests with Long Island cauliflower, 1953. J. Kaufman and H. W. Hruschka. U. S. Dept. Agr. AMS-1. 16 pp. 1954.

Some refrigeration tests of a motor truck-trailer equipped with one type of dry ice system on refrigeration (an interim report). H. D. Johnson, M. V. Gerrity, J. R. Winston and R. H. Cubbedge. U. S. Dept. Agr., April 1953.

A test comparing dry ice and mechanical refrigeration in the transportation of frozen citrus concentrate by motor truck. C. E. Garver, M. V. Gerrity, J. R. Winston and R. H. Cubbedge. P.M.A. and B.P.I.S.A.E. mimeo. report. Feb. 1953.



Mobile refrigeration of perishables and frozen food. W. H. Redit. Quick Frozen Foods, 15(9):158-160, April 1953.

Transportation tests with early Irish potato tests from the Southeastern states, 1950 season. L. J. Kushman, R. E. L. Green and M. White. Southern Coop. Series Bul. No. 31: 32 pp. 1953.

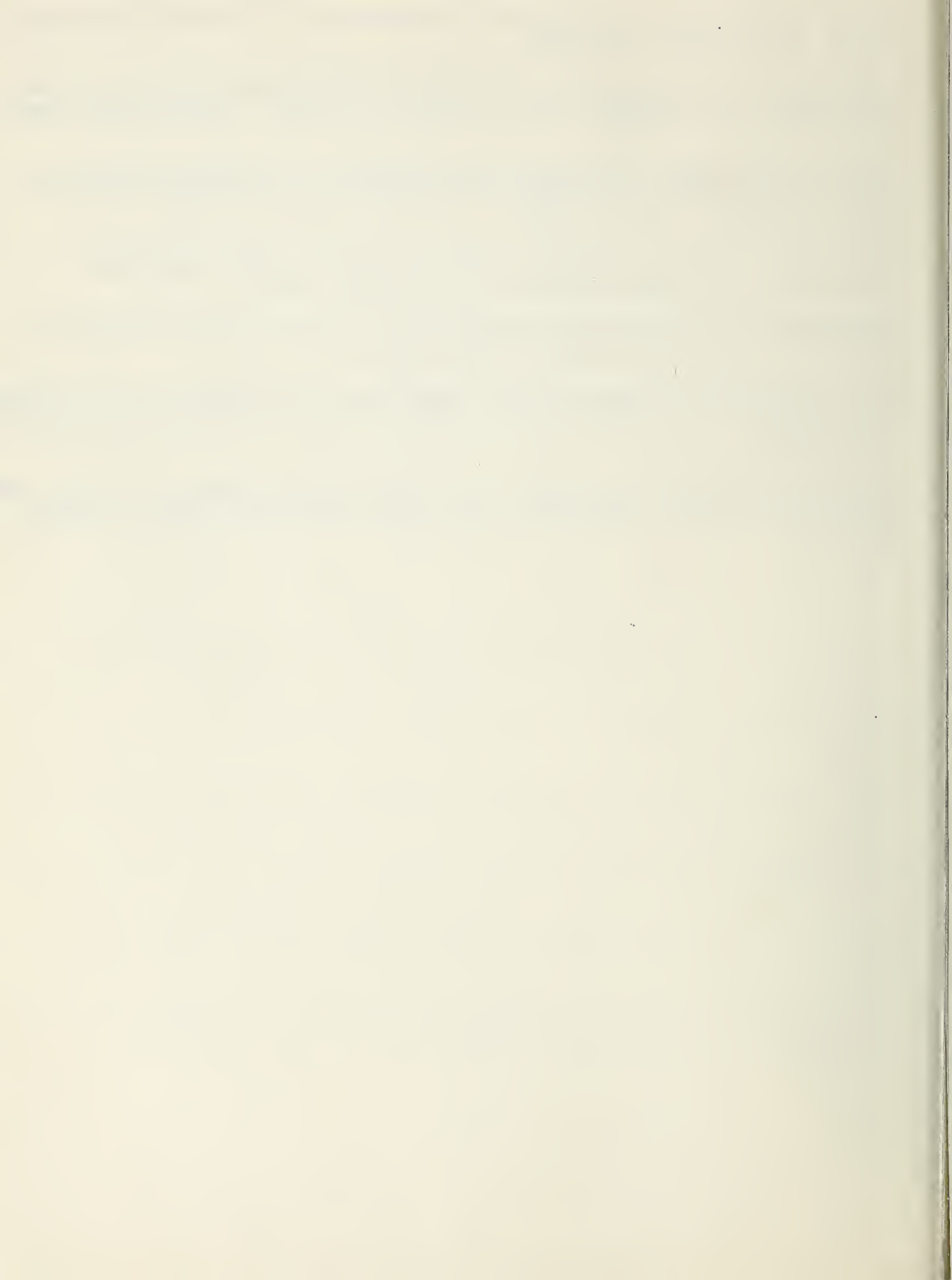
Tests on hydrocooling and refrigeration of peaches in transit from Georgia and South Carolina, 1954. W. H. Redit, M. A. Smith and P. L. Benfield. U. S. Dept. Agr. AMS-62. 24 pp. 1954.

Trucks and trailers. W. H. Redit. Refrig. Data Book, 1955, Applications Volume, Amer. Soc. Refrig. Engin. pp. 28-01 -28-10. 1955.

Transportation of potatoes for chipping. (abs.) H. Findlen and J. C. Hansen. Potato Util. Conf. Proc. 8:33, Aug. 21-23, 1957.

Peach hydrocooling, shipping and fungicidal tests. W. L. Smith, Jr., W. H. Redit, P. L. Benfield, G. B. Ramsey and M. J. Ceponis. 1957. U. S. Dept. Agr. AMS-199. 20 pp. 1957.

Hydrocooling and shipping peaches. W. H. Redit and W. L. Smith. U. S. Dept. Agr. Agr. Mktg. 2(6):14-15. June 1957, also in Fruit and Vegetable Rev. 19 (4):16. July 1957.



## SHIP TRANSPORTATION

A preliminary report on the transportation of apples from the Shenandoah-Cumberland region of Great Britain 1929-30 investigations. C. L. Powell and W. W. Aldrich. U. S. Dept. Agr. Mimeo Circ. Oct. 1931.

Preliminary report on the transportation of apples and pears from the Pacific Northwest via the Pacific Coast and the Panama Canal to Great Britain. 1931. E. D. Mallison and J. G. Gray. U. S. Dept. Agr. Mimeo. Circ. Sept. 1932 and Blue Anchor 3(1). 1933.

Orange refrigeration in ocean transportation is best when fruit is precooled. W. R. Barger. U.S.D.A. Yearbook 1932. pp. 276-277.

Orange refrigeration in ocean voyage best if fruit is precooled. W. R. Barger. Calif. Citrograph 18:102. 1933.

Transportation of apples from the Shenandoah-Cumberland section to overseas markets. P. L. Harding and C. L. Powell. U.S. Dept. Agr. Tech. Bul. 523, 27pp. 1936.

Influence of packing and handling methods on condition of apples barreled for export. P. L. Harding, J. M. Lutz and D. H. Rose. U. S. Dept. Agr. Tech. Bul. 559. 25 pp. 1937.

Studies on refrigeration of Puerto Rican Red Spanish pineapples, 1938 season. C. O. Bratley, and Wm. Pennock. U. S. Dept. Agr. H.T. & S. Office Rept. No. 26. 31 pp. Oct. 1938.

How to stow and take care of food on shipboard. C. O. Bratley. War Shipping Admin. (Food Control Div.) 1945.

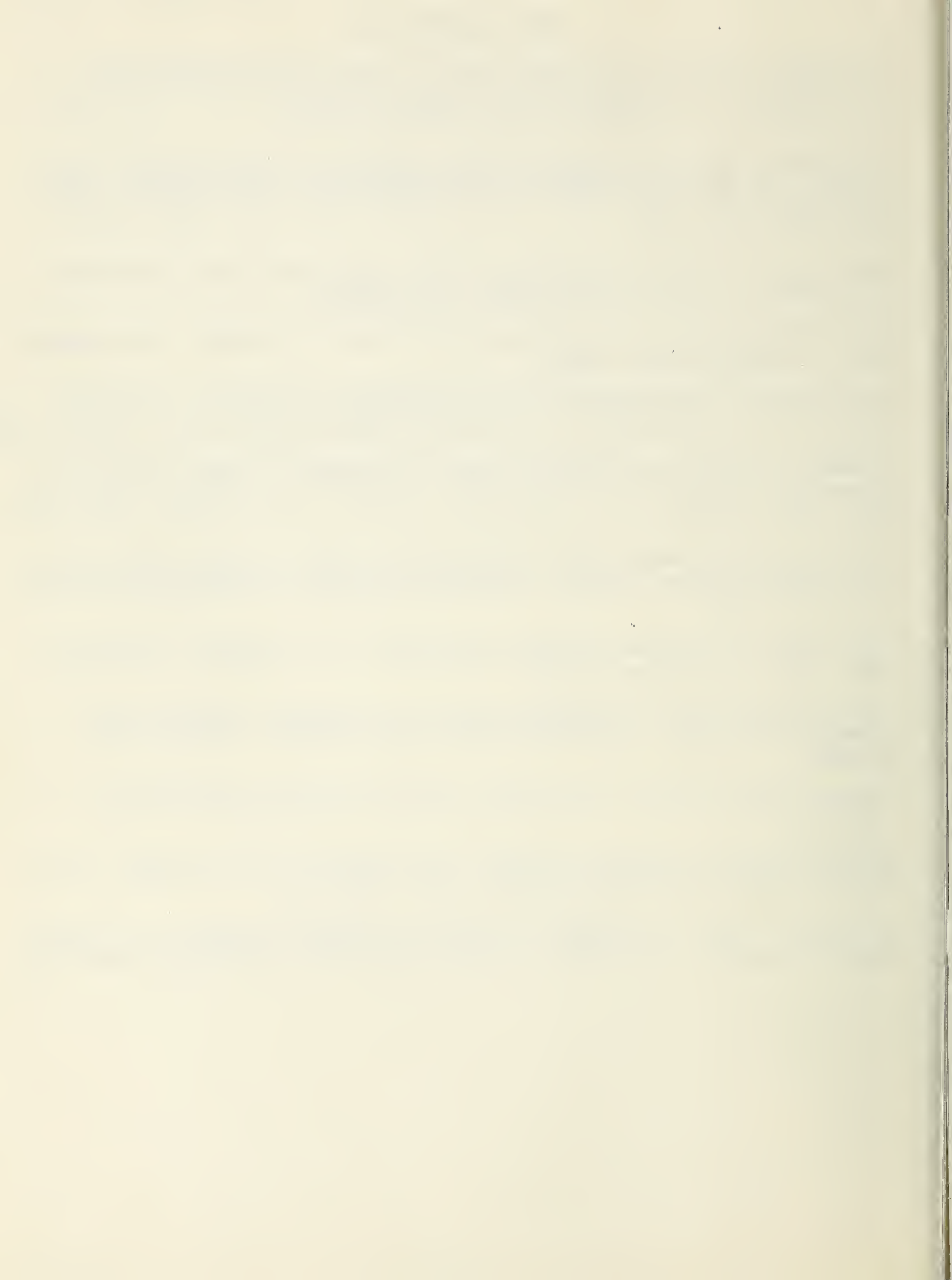
Quality Citrus Fruits for European markets. H. T. Cook. U. S. Dept. Agr. Marketing Activities. Jan. 1956, also in Citrus Industry, 37(5):8-9, 23. May 1956.

Overseas shipping tests. E. M. Harvey. Calif. Citrograph 42(9):108-109. July 1957.

American citrus can compete in Europe. J. R. Winston and E. M. Harvey. U. S. Dept. Agr. Agricultural Marketing 2(11):8-9. Nov. 1957.

St. Nick can leave your oranges in European Christmas stockings. E. M. Harvey and J. R. Winston. U. S. Dept. Agr. Agricultural Situation 41(11):7. Nov. 1957.





## AIR TRANSPORTATION

Report of test shipment of cut flowers from San Francisco by air express. March 1941. W. R. Barger and W. T. Pentzer. U. S. Dept. Agr. H.T. & S. Office Rept. No. 65. 23 pp. March 1941.

Shipping flowers in stratoliners. W. R. Barger. Sci. Amer. 1941.

Airplane transportation tests with tomato plants from Tifton, Ga. to Bowling Green, Ohio. - May 1945. E. V. Miller, W. D. Moore and E. K. Vaughan. U. S. Dept. Agr. H.T. & S. Office Rept. No. 153. 11 pp. May 1945.

Handling and shipping southern-grown tomato plants. E. V. Miller, W. D. Moore, H. A. Schomer, and E. K. Vaughan. U. S. Dept. Agr. Circ. 805. 26 pp. 1949.

Refrigerated strawberry cases. W. R. Barger. Modern Packaging 24(3):125-126, 173, 175. 1950.

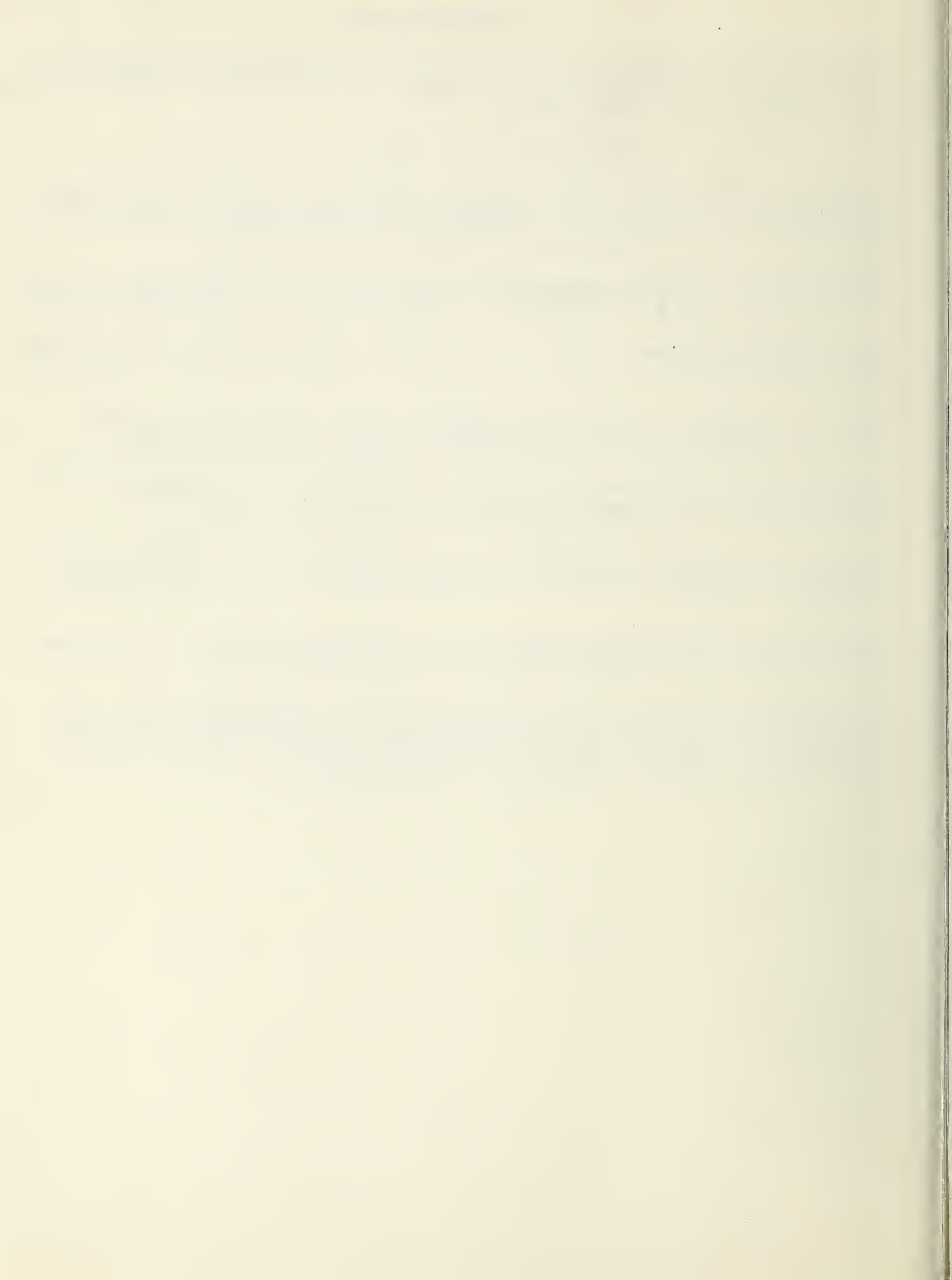
Air cargo insulation studies with flowers. W. R. Barger and A. L. Ryall. U. S. Dept. Agr. H.T. & S. Office Rept. No. 225. 10 pp. May 1950.

Air shipments of prepackaged sweet corn from Florida. H. A. Schomer, R. K. Showalter and V. A. Reubelt. Pre-Pack-Age 6(5):11-13. 1953.

Altitude tests with flowers (Effect of simulated air cargo flights). W. R. Barger. U. S. Dept. Agr. H.T. & S. Office Rept. No. 224. 1950. Reissued as AMS-59. 1955.

Temperature and humidity requirements for air transportation. W. R. Barger. Fruit & Veg. Review. 18(1):18,19 and 21. April 1956.

Air transportation of fruits, vegetables and cut flowers: Temperature and humidity requirements and perishable nature. L. L. Claypool, L. L. Morris, W. T. Pentzer and W. R. Barger. U. S. Dept. Agr. H.T. & S. Office Rept. No. 258. 27 pp. Oct. 1951. Reissued as AMS-280, 1958.



DETERIORATION IN TRANSIT

Investigations on the harvesting and handling of Bosc pears from the Rogue River Valley. H. Hartman, J. R. Magness, F. C. Reimer and M. H. Haller. Oregon Agr. Expt. Sta. Bul. 228. 30 pp. 1927.

Deterioration of Christmas holly in transit and storage. R. C. Wright and T. M. Whiteman. U.S.D.A. Circ. 207. 12 pp. 1931.

Freezing of greenhouse-grown tomatoes in transit. R. C. Wright and T. M. Whiteman. U. S. Dept. Agr. Circ. 291. 8 pp. 1933.

Bruising and freezing of apples in storage and transit. D. H. Rose and J. M. Lutz. U. S. Dept. Agr. Tech. Bul. 370. 15 pp. 1933.

Report on California asparagus shipping tests. G. B. Ramsey. U. S. Dept. Agr. H.T. & S. Office Rept. No. 21. 10 pp. 1938.

Studies on the "raisining" of Alexandria (Muscat) grapes in transit. C. E. Asbury, C. O. Bratley and W. R. Barger. U. S. Dept. Agr. Circ. 574. 11 pp. 1940.

Comparison of wrapped and naked-pack lemons in shipping tests from Southern California to New York, N. Y. 1944. E. M. Harvey, G. L. Embree and C. O. Bratley. U. S. Dept. Agr. H.T.&S. Office Rept. No. 147. 18 pp. Sept. 1944.

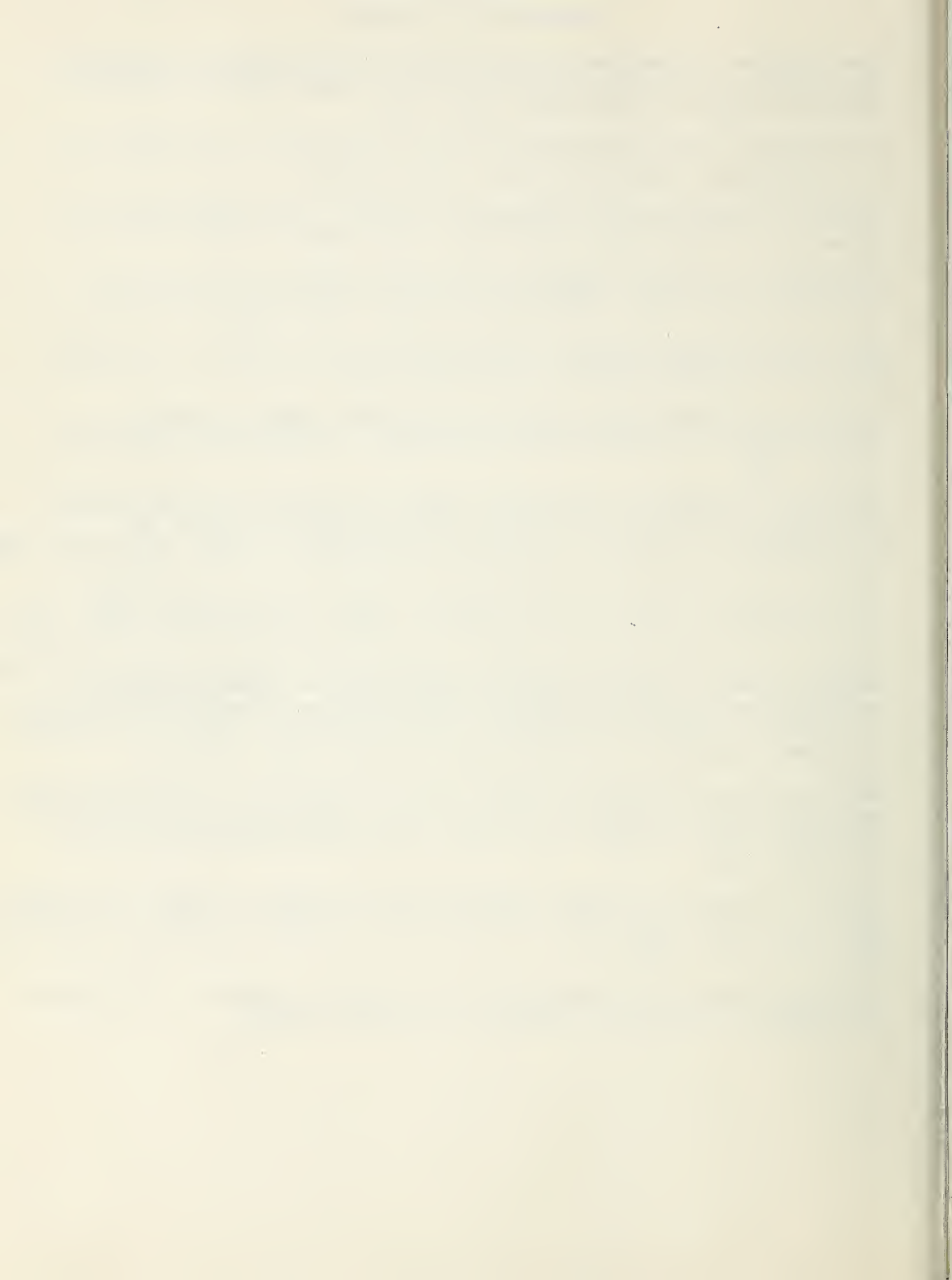
The prevention of mechanical injury during transit of new crop potatoes. W. R. Barger E. V. Shear and L. L. Morris. Calif. Agr. Expt. Sta. Mimeo. 1945. 7 pp.

Shipping tests with Delicious apples from Wenatchee, Wash. to New York and other eastern markets: A study of commodity temperatures and dessert quality in relation to various refrigeration and heater services. Oct. 1945 to Apr. 1946. F. Gerhardt, E. Smith, C. O. Bratley, J. S. Wiant, E. V. Shear and J. Kaufman. U. S. Dept. Agr. H.T. & S. Office Rept. No. 172. 12 pp. May 1946.

The suitability of Kennebec and Sebago potato varieties for shipping and chip-making when grown near Charleston, S. C. L. J. Kushman, W. A. Radspinner, M. A. Smith and W. M. Epps. U. S. Dept. Agr. H.T. & S. Office Rept. No. 255. 5 pp. Aug. 1951.

Effect of storage and railroad transit on potato diseases, injuries, and shrinkage. D. Folsom, H. O. Roach, J. S. Wiant and J. Kaufman. Maine Agr. Expt. Sta. Bul. 507. 28 pp. 1952.

Bruising, freezing and chemical injury of potatoes in transit. R. C. Wright. U. S. Dept. Agr. Tech. Bul. 668:21 pp. 1939 (Rev. 1952).



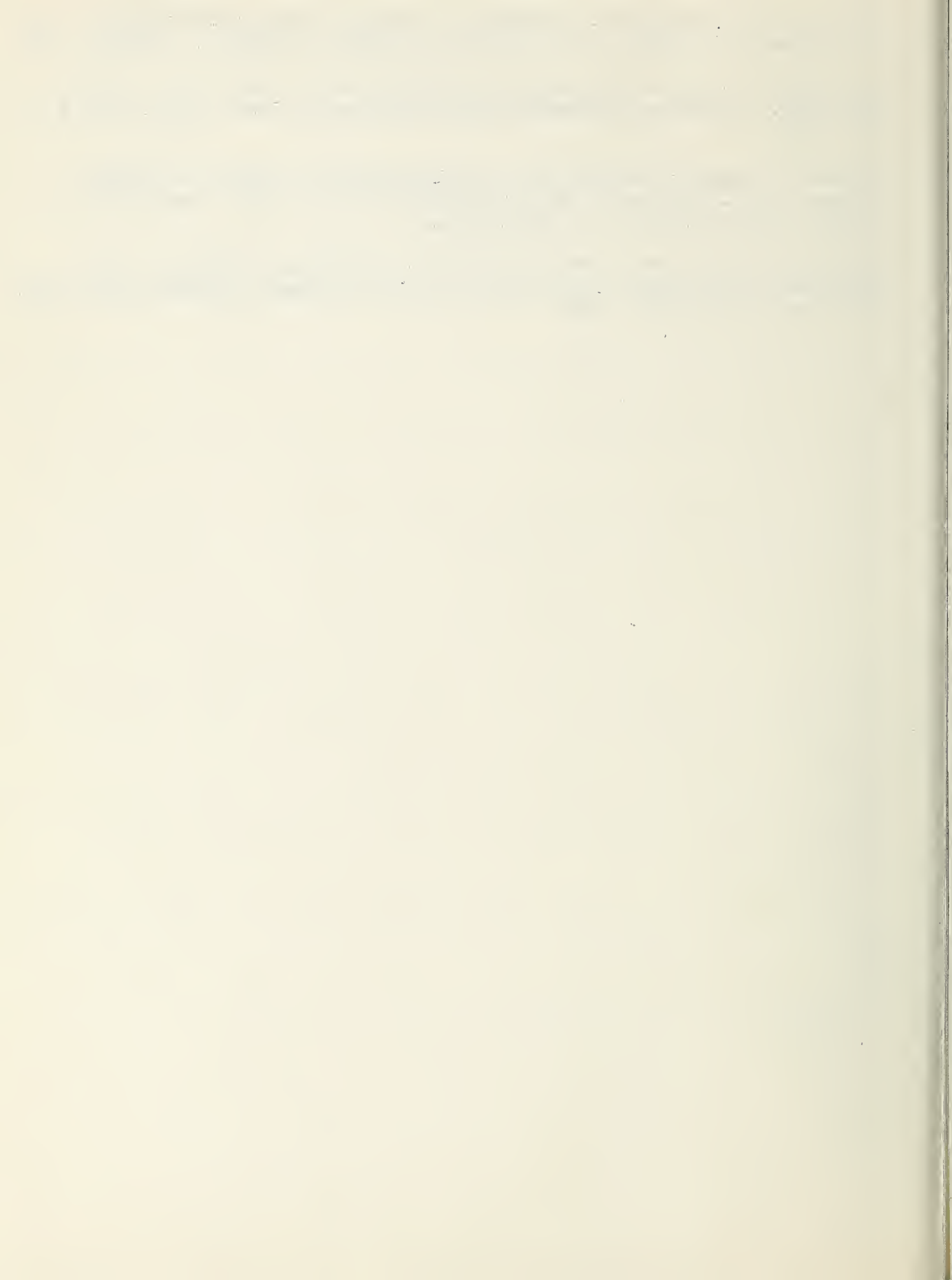


Effect of railroad transit conditions on certain potato tuber diseases. D. Folsom, H. O. Roach, J. S. Wiant and J. Kaufman. Phytopath. 42:112. 1952.

Developments in research as they affect transit losses. H. T. Cook. 8th Nat. Conf. on Handling Perishable Agr. Commodities at Purdue Univ., Mar. 15-19, 1954.

Effects of simulated transit and marketing periods on quality of Florida oranges. P. L. Harding. Food Tech. 8:311-312. July 1954. Reprinted in Citrus Industry 35(9):7, 12. Sept. 1954.

Quality of Florida sweet corn as affected by marketing practices. R. K. Showalter, W. S. Greig, C. S. Parsons, and K. D. Demaree. Florida State Hort. Soc. Proc. 68:182-185. 1955.



## WEIGHT LOSS IN TRANSIT

Shrinkage in watermelons while in transit. R. C. Wright and J. M. Lutz. U. S. Dept. Agr. Mimeo. Circ. Feb. 1932.

Changes in weight of standard packages of Vinifera grapes during transit from California to Eastern markets. C. E. Asbury and C. O. Bratley. U. S. Dept. Agr. H.T. & S. Office Rept. No. 33. 10 pp. Feb. 1936.

Refrigeration of oranges in transit from California. C. W. Mann. and W. C. Cooper. U. S. Dept. Agr. Tech. Bul. 505. 88 pp. 1936.

Report on shipping tests with early potatoes from Kern County, California, 1938. W. R. Barger, W. T. Pentzer, G. B. Ramsey, J. S. Wiant, J. H. McGillivray, and R. L. Perry. U. S. Dept. Agr. H.T. & S. Office Rept. No. 27. 16 pp. Oct. 1938.

Investigations on the precooling and transportation of Florida citrus fruit. 1939-40. J. R. Winston, E. D. Mallison and C. O. Bratley. U. S. Dept. Agr. H.T. & S. Office Rept. No. 49. 141 pp. Aug. 1940.

Studies on the "raisining" of Alexandria (Muscat) grapes in transit. C. E. Asbury, C. O. Bratley, and W. R. Barger. U. S. Dept. Agr. Circ. 574. 11 pp. 1940.

Handling and shipping tests with new potatoes from Kern County, California. W. R. Barger, G. B. Ramsey and R. L. Perry, and J. H. McGillivray. Calif. Agr. Expt. Sta. Bul. 664. 24 pp. 1942.

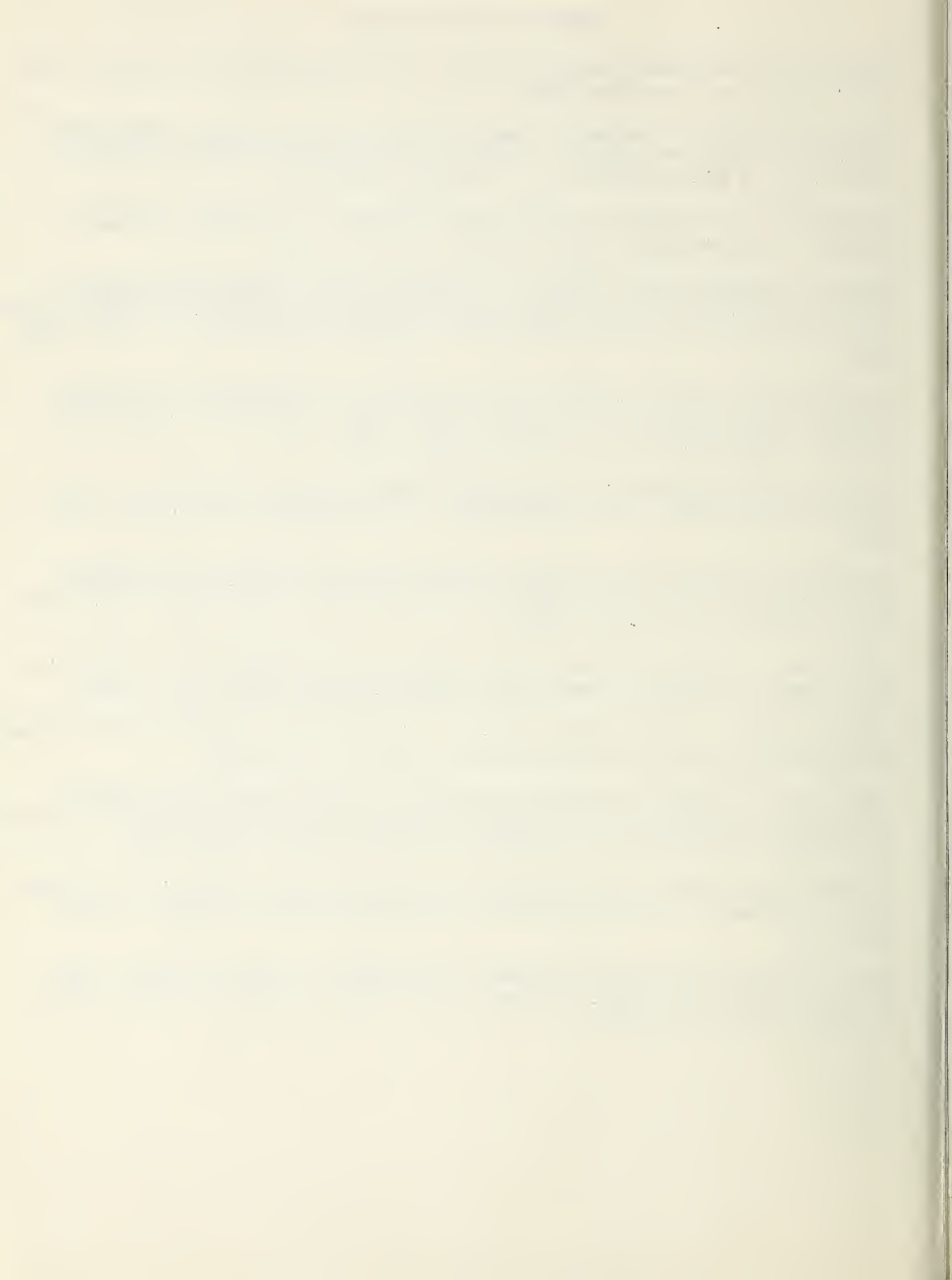
Experiments on shipping washed early potatoes. G. B. Ramsey, J. M. Lutz, H. O. Werner and A. D. Edgar. Nebraska Agr. Expt. Sta. Bul. 364. 32 pp. 1944.

Weight changes in apples during transit. E. Smith, C. O. Bratley and E. V. Shear. U. S. Dept. Agr. H.T. & S. Office Rept. No. 143. 7 pp. 1944.

Comparison of wrapped and naked-pack lemons in shipping tests from Southern California to New York, N. Y. 1944. E. M. Harvey, G. L. Embree and C. O. Bratley. U. S. Dept. Agr. H.T. & S. Office Rept. No. 147. 18 pp. Sept. 1944.

Weight loss of cantaloups in transit. W. T. Pentzer, A. L. Ryall, E. V. Shear, and G. B. Ramsey. U. S. Dept. Agr. H.T. & S. Office Rept. No. 151. 10 pp. Feb. 1945.

An evaluation of precooling and transit protective services for Texas citrus fruit. A. L. Ryall and G. B. Ramsey. U. S. Dept. Agr. H.T. & S. Office Rept. No. 159. 44 pp. Aug. 1945.



Shipping tests with Washington Navel oranges under controlled and standard ventilation and ice refrigeration from Tulare County and southern California. Nov. & Dec. 1945-46. E. M. Harvey, W. T. Pentzer, C. O. Bratley, G. B. Ramsey, J. R. MacRill and J. A. Scanlon. U. S. Dept. Agr. H.T. & S. Office Rept. No. 170. 31 pp. April 1946.

Handling and shipping early potatoes. D. H. Rose. U. S. Dept. Agr. Circ. 744:44 pp. 1946.

Shipping tests with Washington Navel oranges under half-stage and full-bunker refrigeration from Tulare County, California. Dec. 1947. E. M. Harvey, E. P. Atrops, J. R. MacRill and W. C. Ward. U. S. Dept. Agr. H. T. & S. Office Rept. No. 187. 26 pp. Mar. 1948, also in Calif. Citrograph Vol. 33. No. 8 and 12.

Transportation test with White Rose potatoes from Kern County, California to New York City. May 1948. W. R. Barger, M. A. Smith, H. T. Cook and W. A. Radspinner. U. S. Dept. Agr. H.T. & S. Office Rept. No. 189. 31 pp. June 1948.

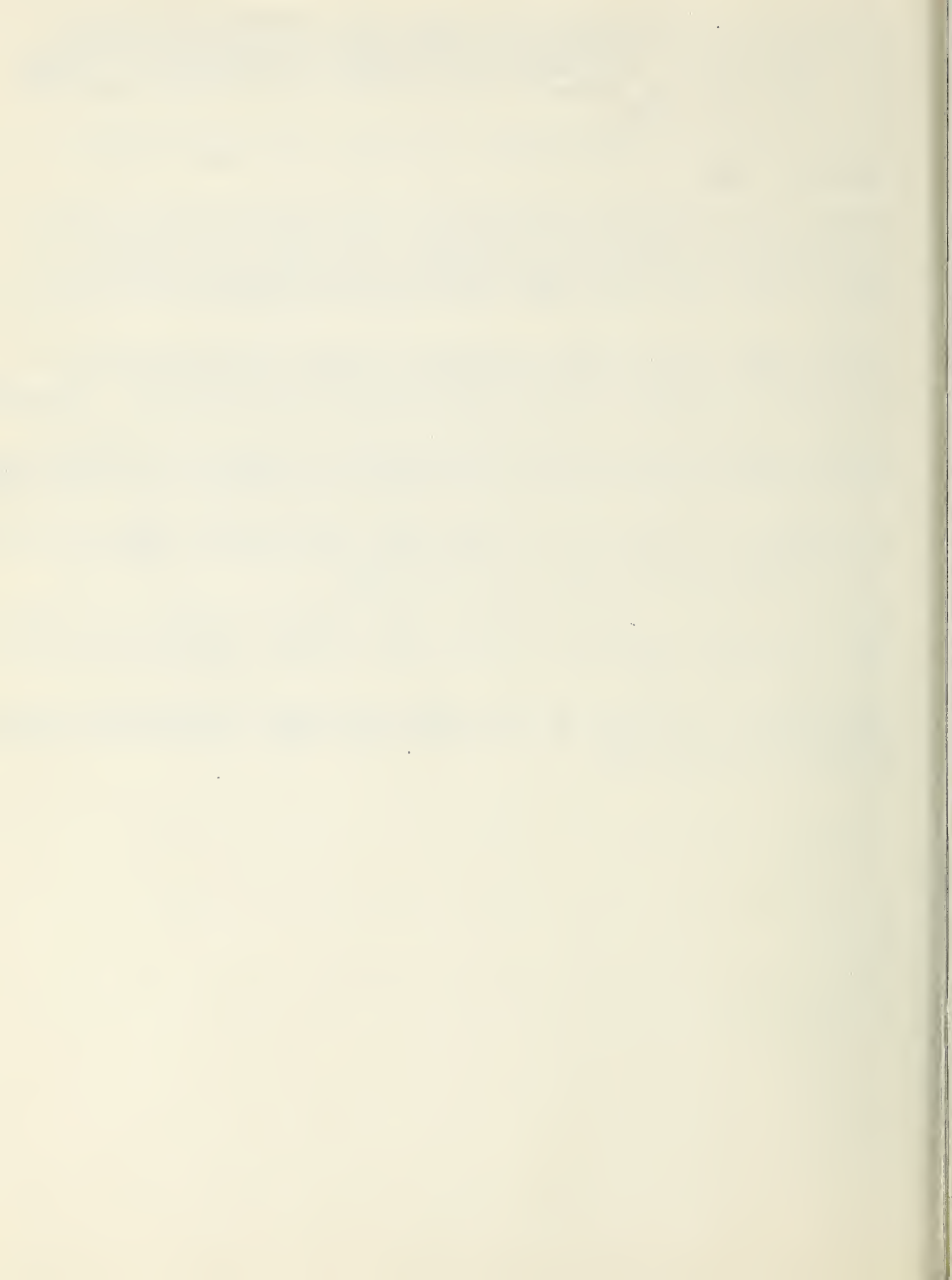
Transit icing tests with Early White Rose potatoes from Kern County, Calif. to New York City, May and June 1950. W. R. Barger, D. H. Dewey, B. A. Friedman and A. L. Ryall. U. S. Dept. Agr. H.T. & S. Office Rept. No. 239. 17 pp. Dec. 1950.

Temperature and quality records for sweetpotato truck shipments, 1950-51 season. L. J. Kushman, G. B. Ramsey, M. A. Smith and W. R. Wright. U. S. Dept. Agr. H.T. & S. Office Rept. No. 254. 9 pp. July 1951.

Effect of storage and railroad transit on potato diseases, injuries, and shrinkage. D. Folsom, H. O. Roach, J. S. Wiant and J. Kaufman. Maine Agr. Expt. Sta. Bul. 507. 28 pp. 1952.

Transportation tests with early Irish potato tests from the Southeastern states, 1950 season. L. J. Kushman, R. E. L. Green and M. White. Southern Coop. Series Bul. No. 31: 32 pp. 1953.





# CHEMICAL TREATMENTS (CO<sub>2</sub>, Ethylene etc.)

Effect of solid and gaseous carbon dioxide upon transit diseases of certain fruits and vegetables. C. Brooks, E. V. Miller, C. O. Bratley, J. S. Cooley, P. V. Mook, and H. B. Johnson. U. S. Dept. Agr. Tech. Bul. 318: 60 pp. 1932.

Transit and storage diseases of fruits and vegetables as affected by initial carbon dioxide treatments. C. Brooks, C. O. Bratley and L. P. McColloch. U.S. Dept. Agr. Tech. Bul. 519: 24 pp. 1936.

Report on precooling and shipping tests with California cantaloups-1936 season. W. T. Pentzer, J. S. Wiant and C. E. Asbury. U. S. Dept. Agr. H.T. & S. Office Rept. No. 10. 43 pp. 1937.

Report on California honey dew melon shipping test. 1936 season. W. T. Pentzer, C. E. Asbury, C. O. Bratley, R. C. Wright, D. F. Fisher and A. Yourman. U. S. Dept. Agr. H.T. & S. Office Rept. No. 11. 8 pp. 1937.

Summarized report--Tests with dry ice as a supplementary refrigerant for control of Sclerotinia Rot of celery in transit. 1936. J. R. Winston, E. V. Miller and G. B. Ramsey. U. S. Dept. Agr. H.T. & S. Office Rept. No. 16. 5 pp. Oct. 1957.

The transportation of sweet cherries under refrigeration and refrigeration supplemented with carbon dioxide gas. E. Smith, F. Gerhardt and A. L. Ryall. U. S. Dept. Agr. H.T. & S. Office Rept. No. 25. 19 pp. Sept. 1938.

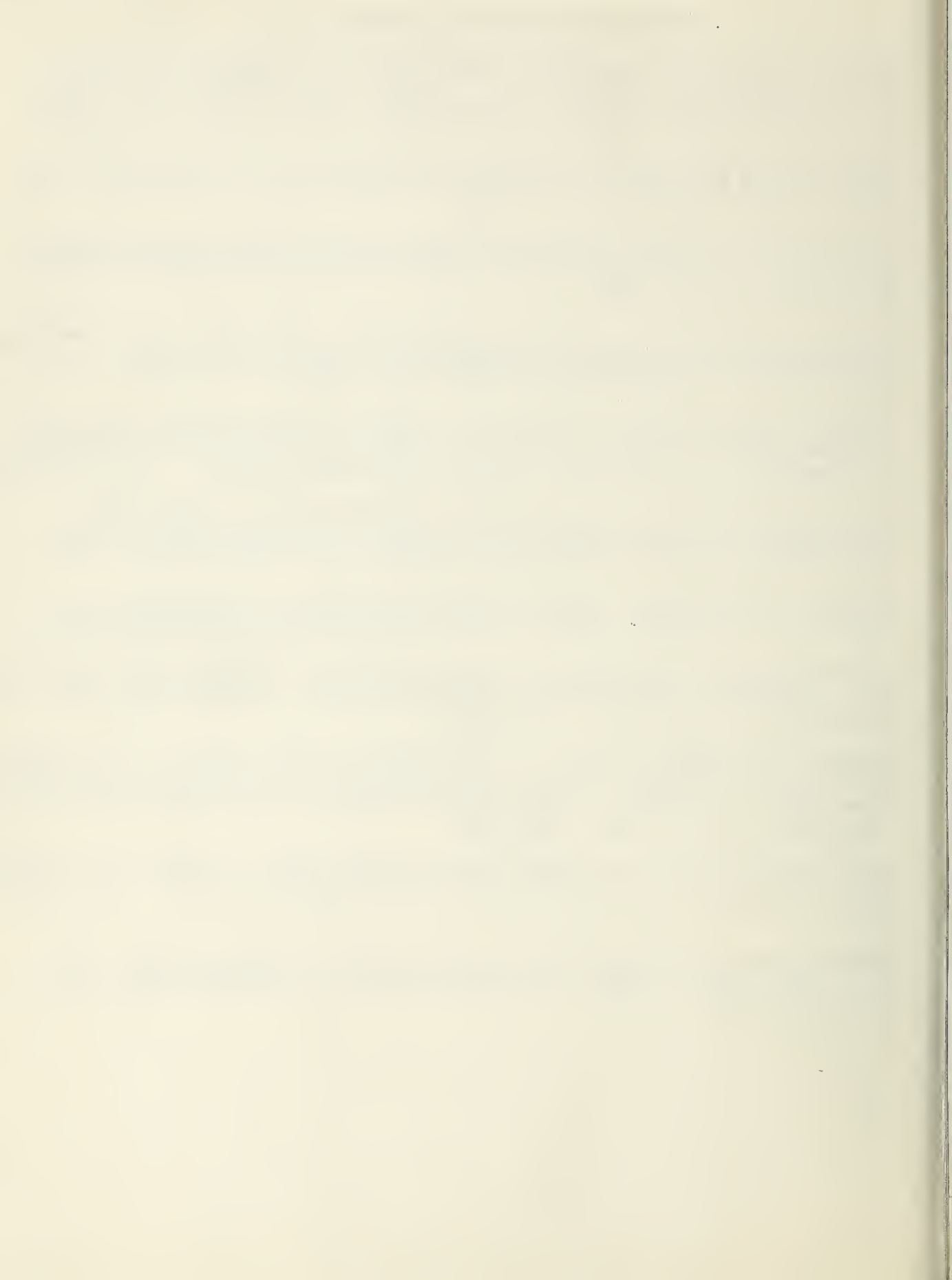
Effect of carbon dioxide storage on Bartlett pears under simulated transit conditions. F. Gerhardt, and B. D. Ezell. Jour. Agr. Res. 56:121-136. 1938.

Investigations on the precooling and transportation of Florida citrus fruit. 1939-40. J. R. Winston, E. D. Mallison and C. O. Bratley. U. S. Dept. Agr. H.T. & S. Office Rept. No. 49. 141 pp. Aug. 1940.

The use of solid carbon dioxide as a refrigerant and as a source of gas to supplement standard refrigeration in the transportation of sweet cherries. June 1940. F. Gerhardt, A. L. Ryall, E. Smith and E. D. Mallison. U. S. Dept. Agr. H.T. & S. Office Rept. No. 51. 36 pp. July 1940.

Carbon dioxide shipping tests with Georgia peaches, 1940. C. Brooks, H. A. Schomer, and C. O. Bratley. U. S. Dept. Agr. H.T. & S. Office Rept. No. 53. 24 pp. Sept. 1940.

Investigations on the precooling and transportation of Florida celery. 1940. D. F. Fisher and D. H. Rose. U. S. Dept. Agr. H.T. & S. Office Rept. No. 55. 28 pp. Dec. 1940.



A study of carbon dioxide gas retention of refrigerator cars during the commercial freight shipment of sweet cherries. F. Gerhardt, E. Smith and W. H. English. U.S. Dept. Agr. H.T. & S. Office Rept. No. 75. 8pp. Aug. 1941.

The use of carbon dioxide as a supplement to refrigeration in the express transportation of sweet cherries. A. L. Ryall, C. O. Bratley, W. H. English and F. W. Allen. U. S. Dept. Agr. H.T. & S. Office Rept. No. 76. 31 pp. Oct. 1941.

Effect of carbon dioxide on apricots and peaches under simulated transit conditions. F. Gerhardt, E. Smith and H. English. Amer. Soc. Hort. Sci. Proc. 38(1940):243-248. 1941.

Notes on the use of CO<sub>2</sub> gas in simulated transit studies of Delicious apples. Season of 1940-41. Fisk Gerhardt. U. S. Dept. Agr. H.T. & S. Office Rept. No. 82. 9 pp. Jan. 1942.

Report on a transportation test with sweet cherries in refrigerator cars: Influence of the height of load, mechanical circulation of air, and the use of carbon dioxide gas as a supplement to standard refrigeration. E. Smith, F. Gerhardt and W. H. English. U. S. Dept. Agr. H.T. & S. Office Rept. No. 92. 36 pp. July 1942.

Effect of carbon dioxide and temperature on the decay of sweet cherries under simulated transit conditions. H. English and F. Gerhardt. Amer. Soc. Hort. Sci. Proc. 40:172-176. 1942.

The use of carbon dioxide as a supplement to refrigeration in the Express transportation of sweet cherries. A. L. Ryall and F. W. Allen. Blue Anchor 19 (2) 17-18. 1942.

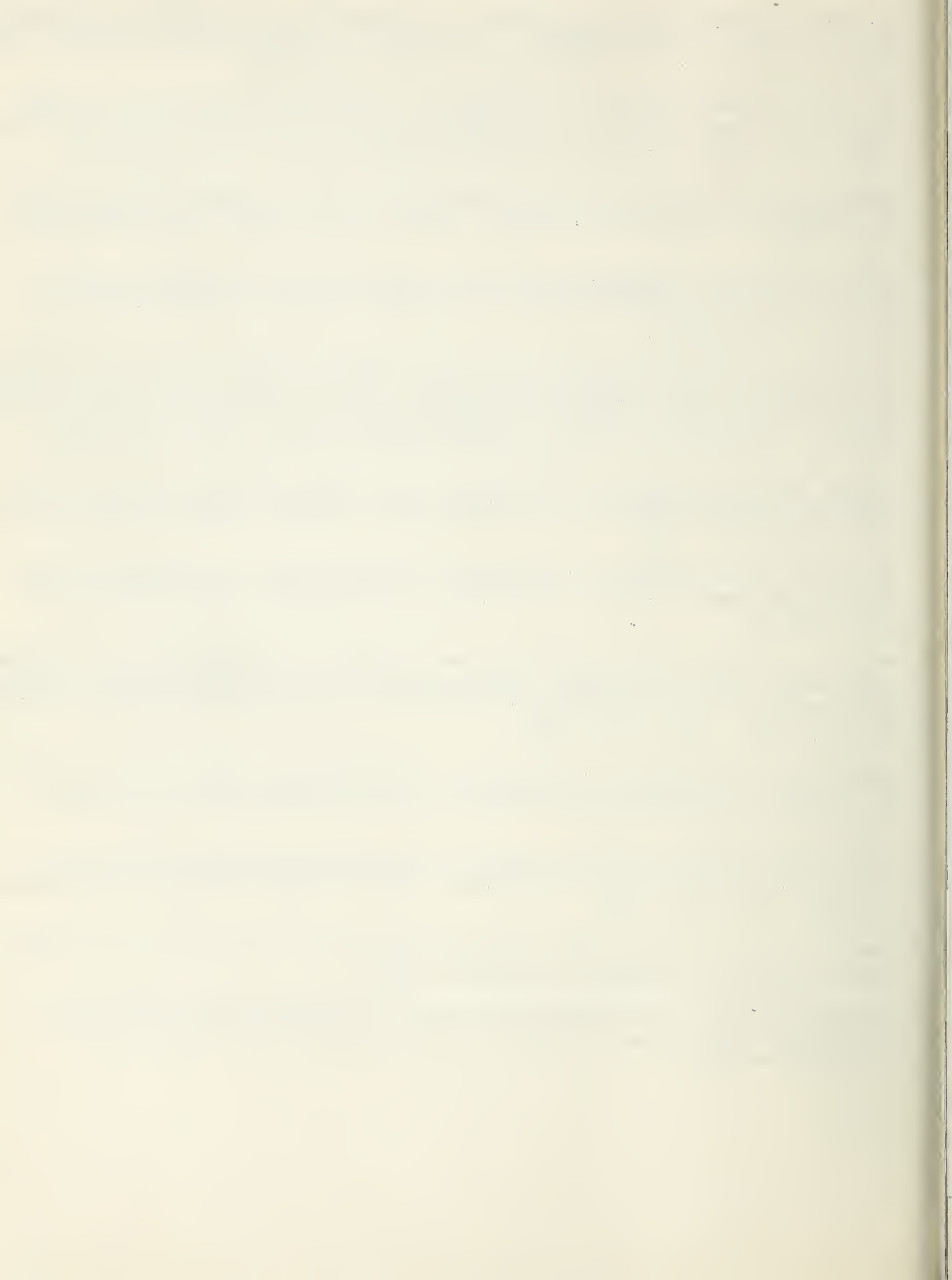
Report on a transportation test with sweet cherries in refrigerator cars equipped with "Preco" fans: A comparison of salting practices and a study of carbon dioxide gas retention. Fisk Gerhardt and W. V. Hukill. U. S. Dept. Agr. H.T. & S. Office Rept. No. 134. 23 pp. Nov. 1943.

Carbon dioxide investigations: Dry ice as a supplement to refrigeration of plums in transit. F. W. Allen, W. T. Pentzer, and C. O. Bratley. Amer. Soc. Hort. Sci. Proc. 44:141-148. 1944.

Tests with top-iced lettuce and carrots in fan cars, Aug.-Sept. 1946. W. T. Pentzer, C. O. Bratley and W. R. Barger. U. S. Dept. Agr. H.T. & S. Office Rept. No. 178. 12 pp. Oct. 1946.

Control of black rot in washed, uncured sweetpotatoes. W. V. Martin, J. M. Lutz, and G. B. Ramsey. Phytopath. 39:580-582. 1949.

Ethylene treatment of Bartlett pears moving to midwestern and western markets. A. L. Ryall. Blue Anchor 32 (2):11. May 1955, also in West. Fruit Grower 9(6):54, June 1955.

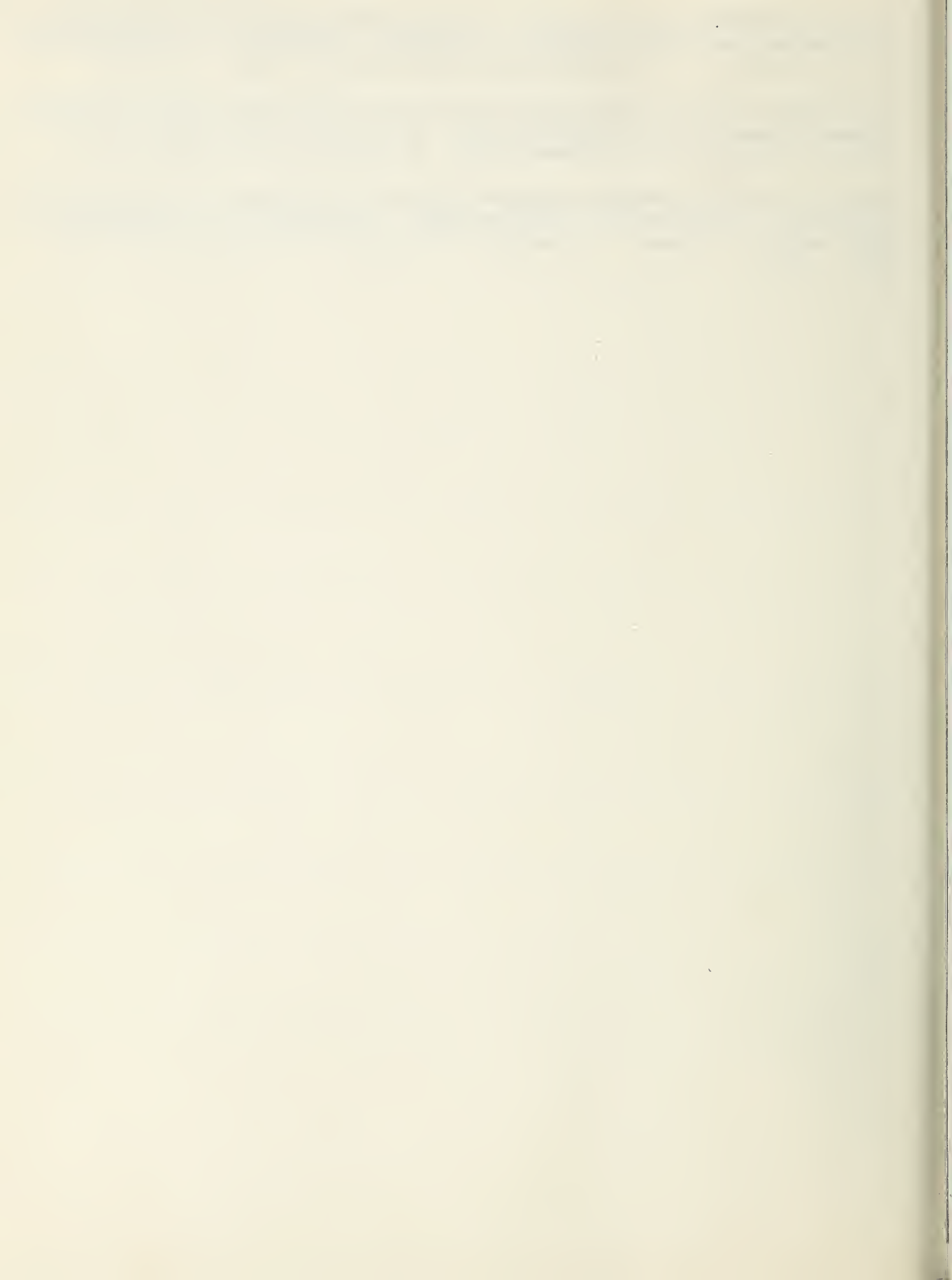




How to use ethylene gas as an aid to ripening early season Bartlett shipments to midwestern and western markets. A. L. Ryall. Printed by the Advisory Board for the promotion of Fresh California Bartlett pears. 3 pp. June 1955. ✓

The effects of bunker salting, dry ice, and air circulation on temperatures in express shipments of fresh strawberries. A. L. Ryall. Proc. Conf. on Transportation of Perishables, Asilomar, Calif. pp. 73-86. April 10-12, 1956.

Tests of modified protective services in the transportation of honey dew melons from Calif. to New York City, 1955 and 1956. H. K. Pratt, L. L. Morris, A. L. Ryall and B. A. Friedman. University of California Veg. Crop Series No. 90. 15 pp. 1957. 4



PADS AND PAPERING

Protection of apples and pears in transit from the Pacific Northwest during winter months. E. D. Mallison, E. A. Gorman and W. V. Hukill. U. S. Dept. Agr. Tech. Bul. 550. 54 pp. 1937.

Potato shipping studies in 1942-43 Eastern Idaho districts. E. Smith and E. V. Shear. U. S. Dept. Agr. H.T. & S. Office Rept. No. 121. 15 pp. March 1943.

Second report on investigations on the transportation of seed potatoes from Nebraska to Texas. A. L. Ryall and J. M. Lutz. U. S. Dept. Agr. H.T. & S. Office Rept. No. 110. 27 pp. April 1944.

Heavy loading and the use of excelsior pads in the shipment of Bermuda onions. A. L. Ryall and E. V. Shear. U. S. Dept. Agr. H.T. & S. Office Rept. No. 139. 13 pp. March 1944.

Report of watermelon shipping tests from S. C. to northern markets, July 1946. J. R. Winston. U. S. Dept. Agr. H.T. & S. Office Rept. No. 176. 5 pp. 1946.

Transportation test with potatoes under heater and ventilation service - Grand Forks, N. D. to points in Texas - April 1949. W. H. Redit and J. M. Lutz. U.S. Dept. Agr. H.T. & S. Office Rept. No. 209. 25 pp. June 1949.

Tests on the shattering of grapes in transit in shipments made from California to New York in August, September, and November 1948. W. T. Pentzer, W. R. Barger and J. Kaufman. U. S. Dept. Agr. H.T. & S. Office Rept. No. 207. 34 pp. Feb. 1949.

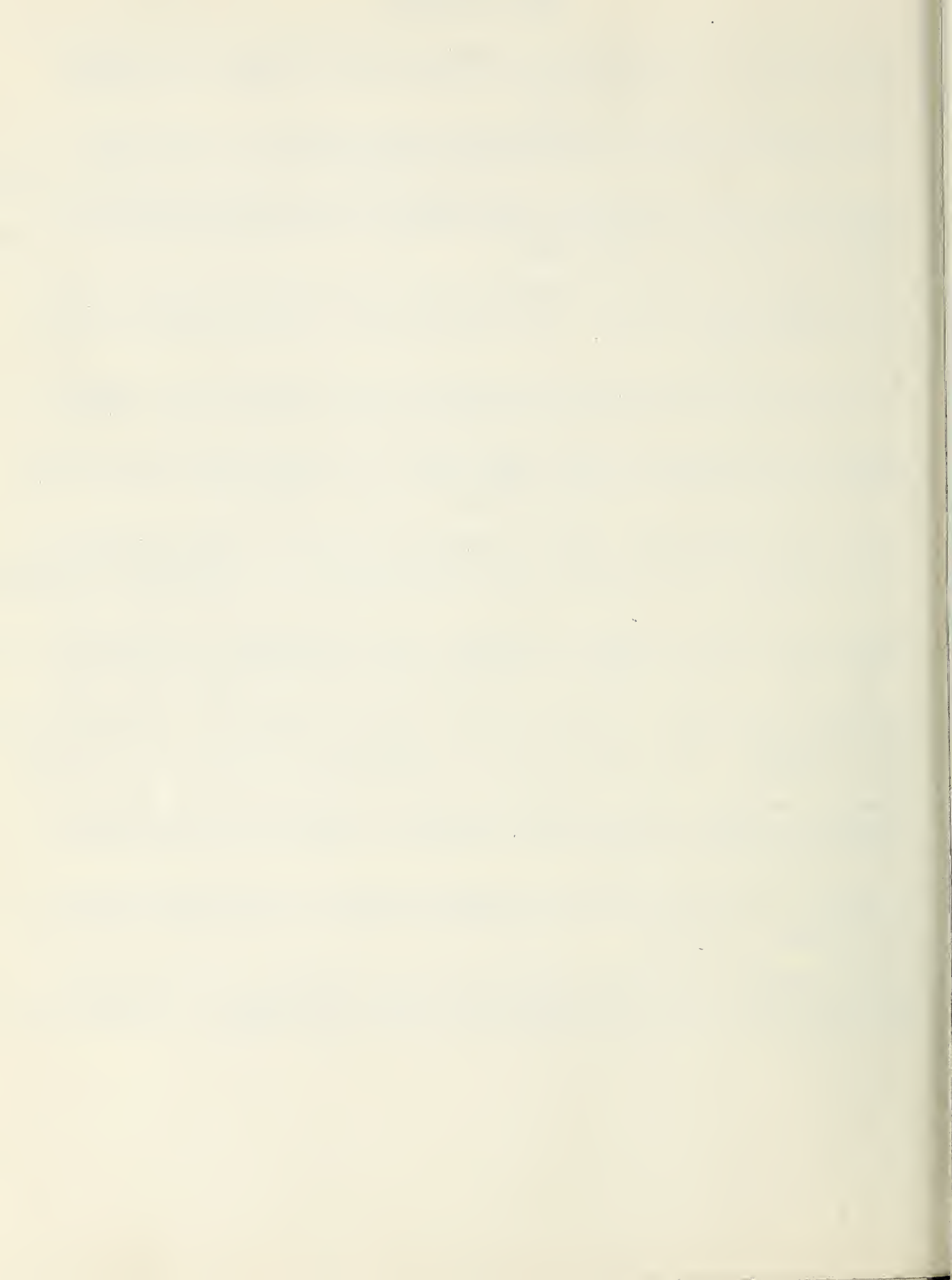
Effect of storage and transit conditions on the performance of Nebraska grown Triumph seed potatoes shipped in carlots to Texas and Alabama. H. O. Werner, A. L. Ryall and J. M. Lutz. Nebraska Agr. Expt. Sta. Res. Bul. 164: 94 pp. 1950.

Influence of pads and car lining on potato transit temperatures. East Grand Forks, Minn. to Chicago, Ill. January 1952. J. M. Lutz, W. H. Redit, R. E. Hardenburg and H. Findlen. U. S. Dept. Agr. H.T. & S. Office Rept. No. 274. 7 pp. 1952.

Effect of handling, transportation and storage on external quality. Quality of potatoes (abstract). Fourth Annual Conference on Potato Utilization Research (Denver, Colo.) 4:15-16, 1952.

Effect of harvesting, handling, and loading potatoes on transit losses. (Abs.) H. Findlen. 7th Ann. Conf. on transportation losses of perishables. Lafayette, Ind. March 16-20, 1953.

Tests of railroad protective services for winter shipments of Maine potatoes. Dec. 1952 to Feb. 1953. W. H. Redit, J. M. Lutz, J. Kaufman and H. Findlen. U.S. Dept. Agr. H.T. & S. Office Rept. No. 297. June 1953. 29 pp.



Heater tests with winter shipments of Maine potatoes by rail. January and February 1954. W. H. Redit and J. M. Lutz. U. S. Dept. Agr. AMS-7. 1955. 4-

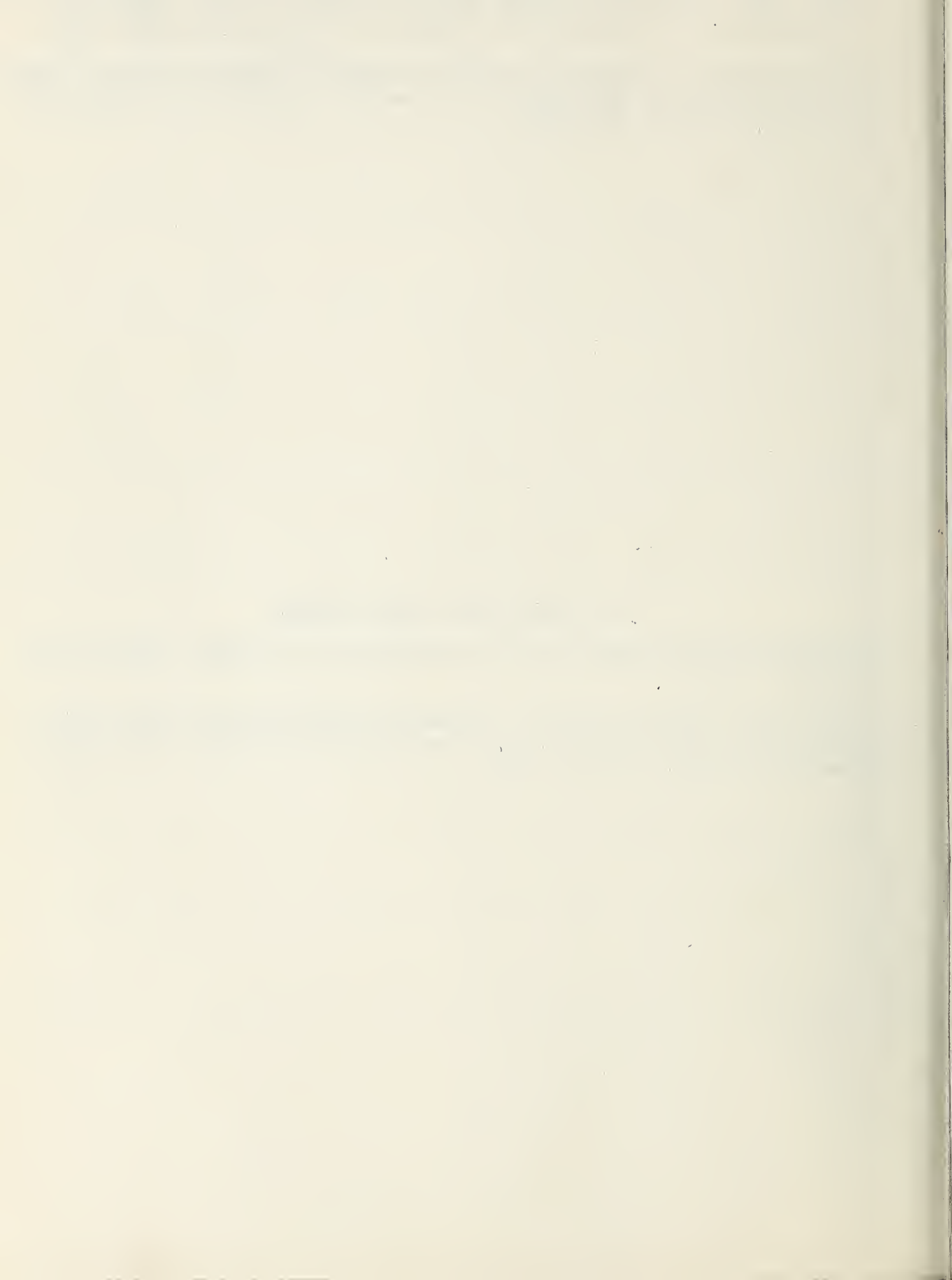
Loading methods and protective services for winter shipments of Maine potatoes by rail. (Abs.) H. W. Hruschka and W. H. Redit. National Potato Utilization Conf. Proc. 7:16-19. Aug. 1956. c

#### AIR VELOCITIES IN CARS & TRUCKS

An anemometer for measuring low air velocities. W. V. Hukill. Refrig. Eng. 28(4):197. 1934.

Protection of apples and pears in transit from the Pacific Northwest during winter months. E. D. Mallison, E. A. Gorman and W. V. Hukill. U. S. Dept. Agr. Tech. Bul. 550. 54 pp. 1937.





LOADING PATTERNS AND CONTAINERS (Including heavy loads)

Refrigerated transportation of Bartlett pears from Pacific Northwest. E. D. Mallison and C. L. Powell. U. S. Dept. Agr. Tech. Bul. 434. 30 pp. 1934.

The relation of the package to the rapid cooling of its contents. E. D. Mallison, and W. V. Hukill. The Packer Dec. 28, 1935.

A more economical method of shipping precooled pears. E. D. Mallison. Report of the Pacific Northwest Advisory Board. March 1935.

Precooling and shipping California asparagus. W. T. Pentzer, R. L. Perry, G. C. Hanna, J. S. Wiant and C. E. Asbury. Calif. Agr. Expt. Sta. Bul. 600. 45 pp. 1936.

Investigations of peaches, 1937. E. D. Mallison and C. O. Bratley. U. S. Dept. Agr. H.T. & S. Office Rept. No. 18. 9 pp. 1937.

Influence of packing and handling methods on condition of apples barreled for export. P. L. Harding, J. M. Lutz and D. H. Rose. U. S. Dept. Agr. Tech Bul. 559. 25 pp. 1937.

Investigations on peaches, 1938 season, Report on the relation of maturity and temperatures in transit to length of marketing period, quality and condition, and on the advantages of ventilated cover pads. E. D. Mallison, C. O. Bratley and J. S. Wiant. U. S. Dept. Agr. H.T. & S. Office Rept. No. 28. 14 pp. Jan. 1939.

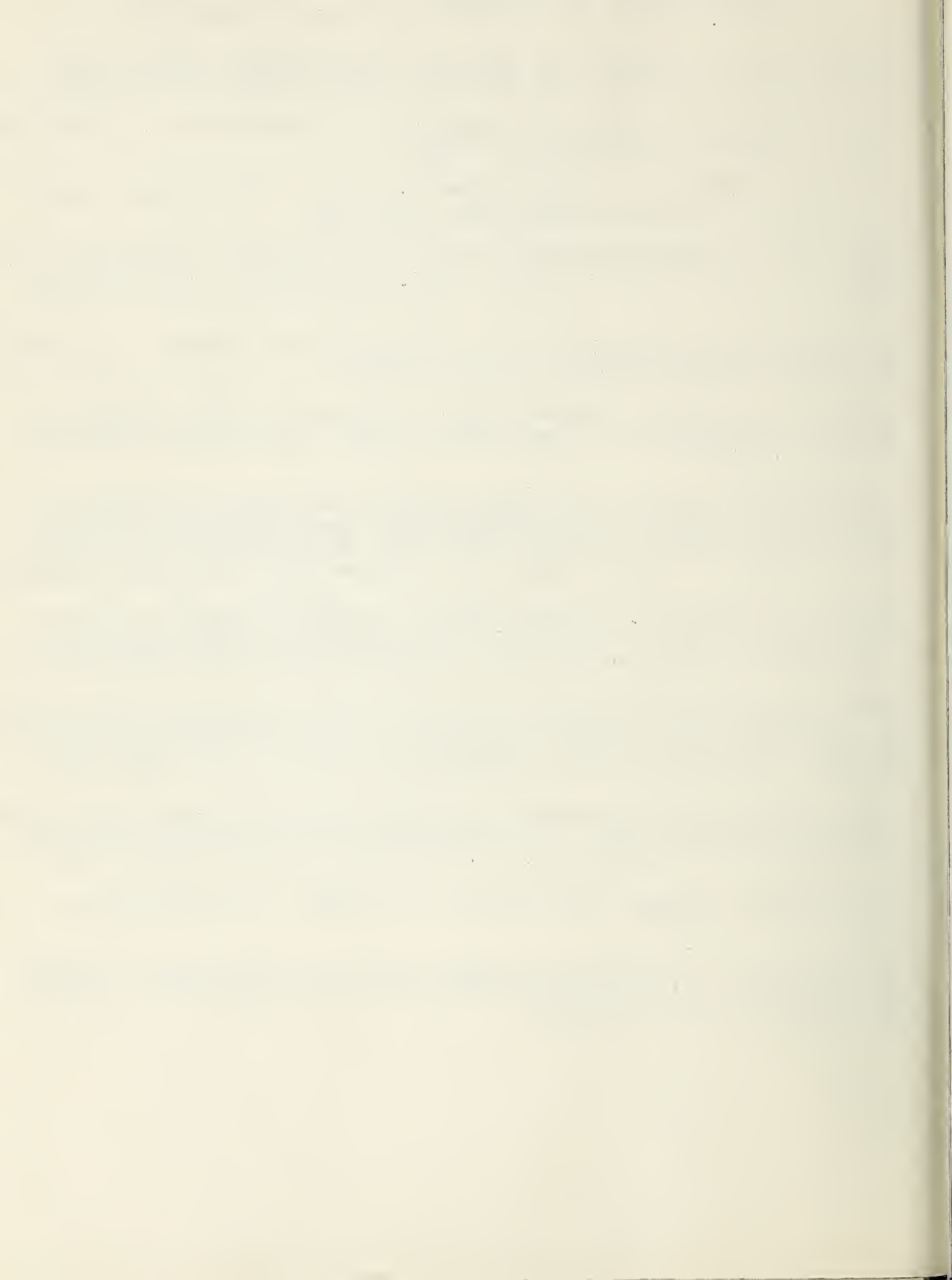
Report of transportation test with lettuce and carrots from Salinas, Calif. to Chicago, Ill., Phila., Pa. and Baltimore, Md., and New York City. Aug. 1939. W. R. Barger. U. S. Dept. Agr. H.T. & S. Office Rept. No. 37. 79 pp. March 1940.

Report on a transportation test with sweet cherries in refrigerator cars: Influence of the height of load, mechanical circulation of air, and the use of carbon dioxide gas as a supplement to standard refrigeration. E. Smith, F. Gerhardt and W. H. English. U. S. Dept. Agr. H.T. & S. Office Rept. No. 92. 36 pp. July 1942.

Report of transportation test with cantaloupes and honey ball melons from Imperial Valley, Calif. to New York, N. Y. June to July 1942. W. Barger, G. Embree and C. W. Mann. U. S. Dept. Agr. H.T. & S. Office Rept. No. 101. 30 pp. 1942.

Heavy loading of oranges. C. W. Mann and G. L. Embree. Calif. Citrograph. 28(2):32-33, 56. 1942.

Investigations on the handling and transportation of early potatoes in the East. R. C. Wright, J. M. Lutz and C. O. Bratley. U. S. Dept. Agr. H.T. & S. Office Rept. No. 93. 21 pp. Feb. 1943.



Precooling grapes with special reference to the Hoak crosswise load. W. T. Pentzer. Blue Anchor 20(4):6-11. 1943.

Heavy loading and the use of excelsior pads in the shipment of Bermuda onions. A. L. Ryall and E. V. Shear. U. S. Dept. Agr. H.T. & S. Office Rept. No. 139. 13 pp. March 1944.

Experiments on shipping washed early potatoes. G. B. Ramsey, J. M. Lutz, H. O. Werner and A. D. Edgar. Nebraska Agr. Expt. Sta. Bul. 364. 32pp. 1944.

Tomato shipping tests from Mississippi. L. P. McColloch, J. M. Lutz and G. B. Ramsey. U. S. Dept. Agr. H.T. & S. Office Rept. No. 146. 6 pp. Aug. 1944.

Storage and shipping tests with straw-filled pads. W. T. Pentzer and C. O. Bratley. Blue Anchor 21 (3):7-35. 1944.

Comparison of wrapped and naked-pack lemons in shipping tests from Southern California to New York, N. Y. 1944. E. M. Harvey, G. L. Embree and C. O. Bratley. U. S. Dept. Agr. H.T. & S. Office Rept. No. 147. 18 pp. Sept. 1944.

Test for comparing the handling and carrying qualities of citrus fruit when packed in regular and substitute containers. C. O. Bratley and J. R. Winston. U. S. Dept. Agr. H.T. & S. Office Rept. No. 152. 7 pp. May 1945.

Handling and shipping early potatoes. D. H. Rose. U. S. Dept. Agr. Circ. 744: 44 pp. 1946.

Should cut gladiolus spikes be loaded horizontally for shipment. T. M. Whiteman and W. D. McClellan. Florists' Rev. March 7, 1946.

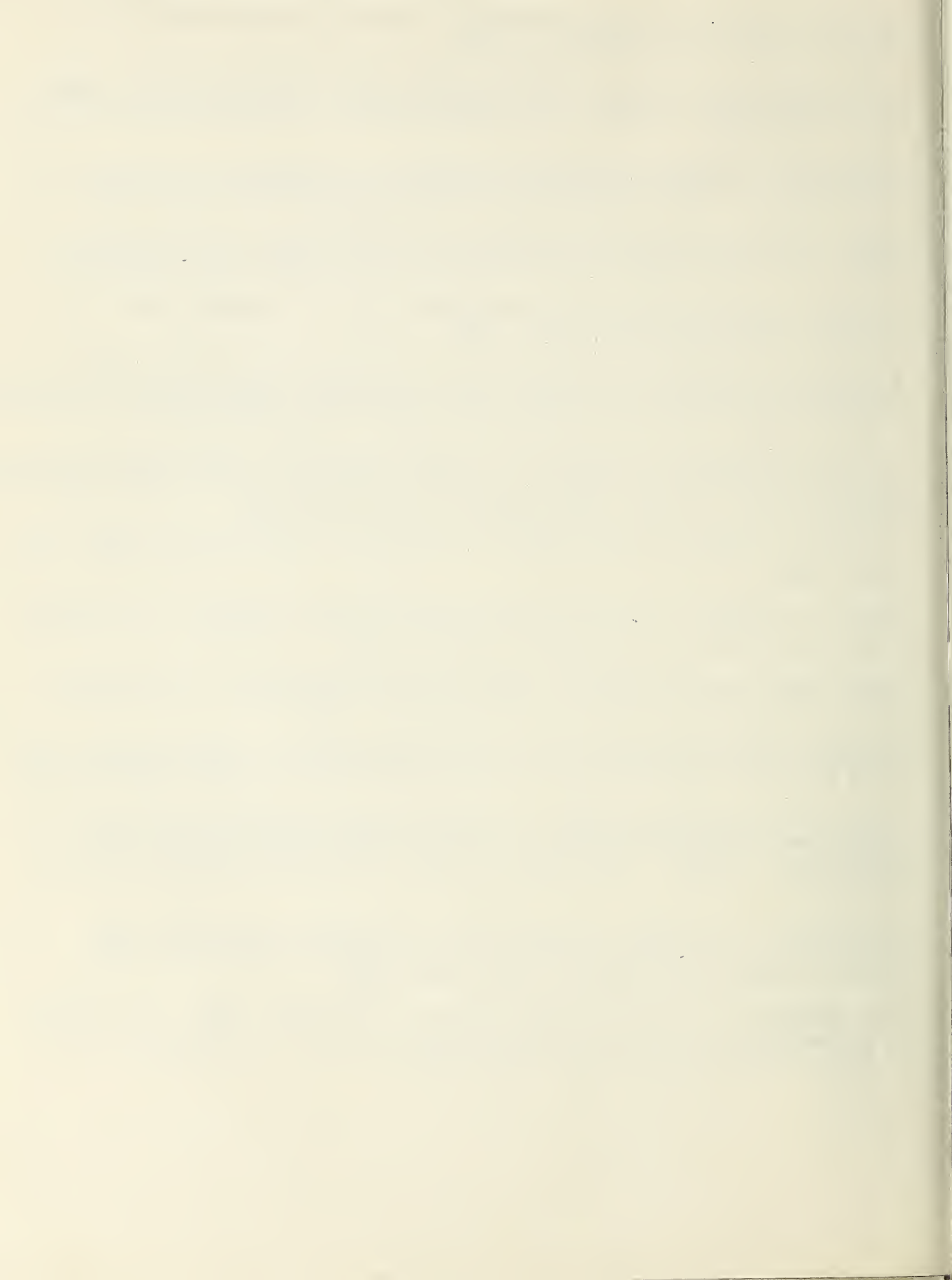
Means sought to avoid curling in loading glads horizontally. T. M. Whiteman and W. D. McClellan. Florists' Exchange 108:13. 1947.

Report of watermelon shipping tests from the southeast to northern markets, 1947. J. R. Winston. U. S. Dept. Agr. H.T. & S. Office Rept. No. 186. 30pp. Jan. 1948.

Tests on the shattering of grapes in transit in shipments made from California to New York in August, September, and November 1948. W. T. Pentzer, W. R. Barger and J. Kaufman. U. S. Dept. Agr. H.T. & S. Office Rept. No. 207. 34 pp. Feb. 1949.

Test shipments of Elberta peaches from South Carolina to New York - 1948. M. H. Haller, M. A. Smith, J. Kaufman and V. A. Reubelt. U. S. Dept. Agr. H.T. & S. Office Rept. No. 199. 16 pp. Jan. 1949.

Test shipments of peaches from South Carolina to New York - 1949. M. H. Haller, S. E. Womeldorph, Jr., B. A. Friedman and M. A. Smith. U. S. Dept. Agr. H.T. & S. Office Rept. No. 223. 16 pp. March 1950.





Shipping tests with Washington Navel oranges, comparing ventilation behavior of the 561- and the 462-box loads from Southern Calif. Jan & Feb. 1950. E. M. Harvey, E. P. Atrops and W. A. Radspinner. U. S. Dept. Agr. H.T. & S. Office Rept. No. 227. 9 pp. May 1950.

Rail shipping tests with Long Island Cauliflower 1949. J. Kaufman, H. W. Hruschka and J. S. Wiant. U. S. Dept. Agr. H.T. & S. Office Rept. No. 228. 7 pp. July 1950.

Bruising of Pacific Northwest apples during shipment and market distribution. E. Smith, C. L. McCombs, T. R. Wright, V. A. Reubelt and W. A. Radspinner. U. S. Dept. Agr. H.T. & S. Office Rept. No. 229. 22 pp. June 1950.

Refrigerated strawberry cases. W. R. Barger. Modern Packaging 24(3):125-126, 173, 175. 1950.

Handling and shipping of prepackaged Florida oranges. J. R. Winston, G. A. Meckstroth, and G. L. Roberts. Pre-Pack-Age 3(4):5-10. 1949 and Jan. 3(5):29-31. 1950.

Transportation test with Washington Navel oranges, comparing ventilation behavior of the 561- and 462-box loads from Central California to New York, Jan. 1951. E. M. Harvey, E. P. Atrops, J. Kaufman and J. R. MacRill. U. S. Dept. Agr. H.T. & S. Office Rept. No. 242. 43 pp. March 1951.

Effect of packing-house treatments, temperature in transit, and containers on decay in tangerines. J. R. Winston, H. W. Hruschka and R. Cubbedge. U. S. Dept. Agr. H.T. & S. Office Rept. No. 263. 36 pp. March 1952.

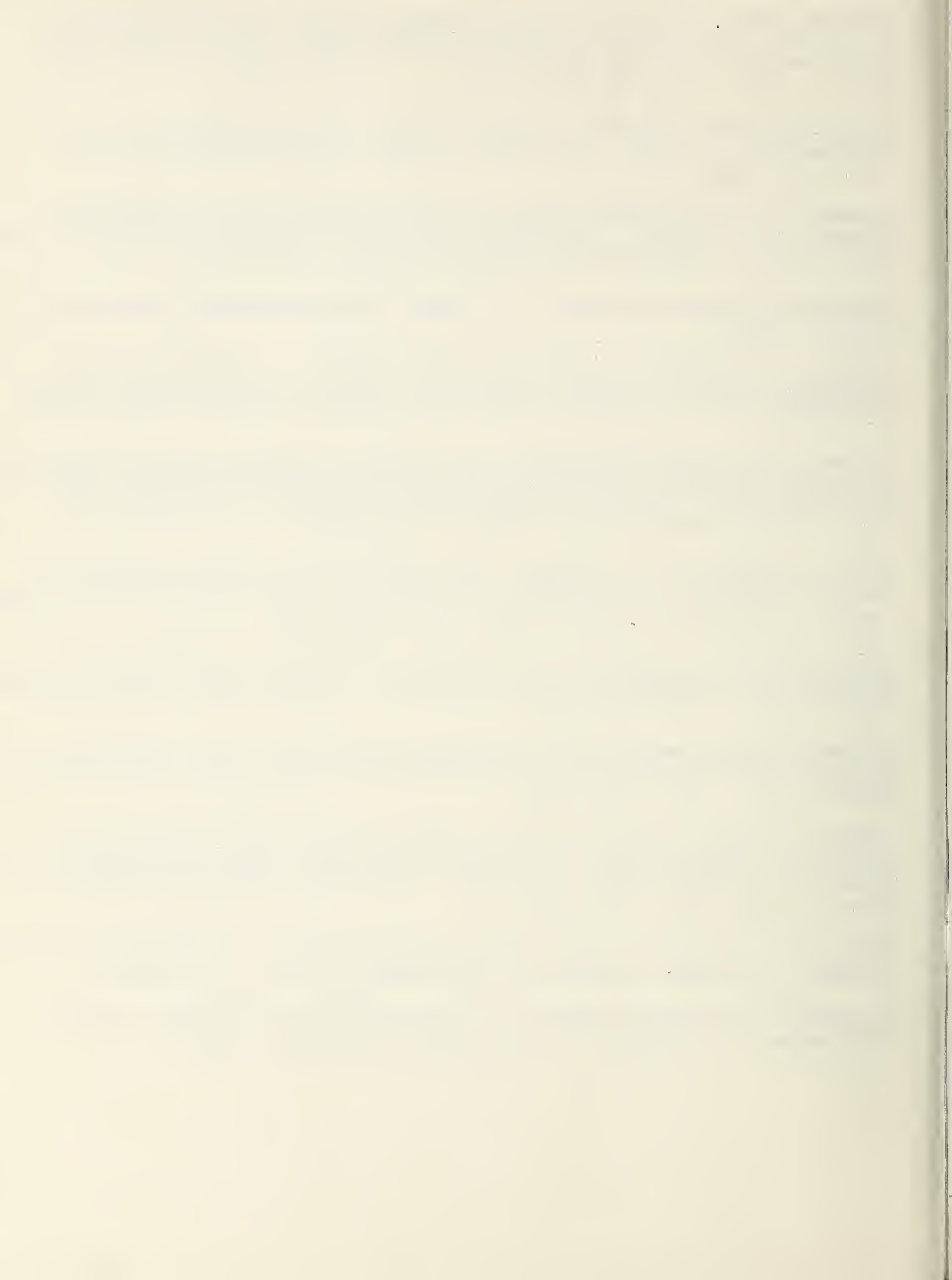
Rail refrigeration test with Florida citrus. Nov. 1950. J. R. Winston, R. Cubbedge, H. W. Hruschka and G. A. Meckstroth. U. S. Dept. Agr. H.T. & S. Office Rept. No. 277. 34 pp. June 1952.

Rail refrigeration test with Florida citrus. April 1951. J. R. Winston, R. Cubbedge, H. W. Hruschka and G. A. Meckstroth. U. S. Dept. Agr. H.T. & S. Office Rept. No. 279. 38 pp. Sept. 1952.

Shipping tests with precooled Valencia oranges in half-box size fiber board cartons from Southern Calif. to New York. Aug. & Sept. 1952. E. M. Harvey, E. P. Atrops, H. W. Hruschka and J. A. Scanlon. U. S. Dept. Agr. H.T. & S. Office Rept. No. 283. 20 pp. Dec. 1952.

Truck shipping tests with Long Island cauliflower 1950-52. J. Kaufman and H. W. Hruschka. U. S. Dept. Agr. H.T. & S. Office Rept. No. 291. 14 pp. 1953.

The effects of packaging materials and package types on the cooling rate of table grapes. A. L. Ryall. Ice and Refrig. 123(2):11-15. 1952.



Tests of railroad protective services for winter shipments of Maine potatoes. Dec. 1952 to Feb. 1953. W. H. Redit, J. M. Lutz, J. Kaufman and H. Findlen. U. S. Dept. Agr. H.T. & S. Office Rept. No. 297. 29 pp. June 1953.

Truck shipping tests with Long Island cauliflower, 1953. J. Kaufman and H. W. Hruschka. U. S. Dept. Agr. AMS-1. 16 pp. 1954.

Shipping and cooling-in-car tests with oranges in fiberboard cartons in different load patterns, 1953. E. M. Harvey, E. P. Atrops, H. W. Hruschka and H. R. Barber. U. S. Dept. Agr. AMS-2. 38 pp. 1954.

Cooling and transportation problems of citrus fruits packed in fiberboard cartons. E. M. Harvey. Proc. of the Conf. on Transportation of Perishables, Davis, Calif., pp. 54-58. April 1954.

Carton-packed citrus problems. E. M. Harvey. Calif. Citrograph 39:324-326. 1954.

Studies of watermelon loading for rail shipment, 1953. P. L. Breakiron, J. R. Winston and J. Kaufman. U. S. Dept. Agr. Mktg. Res. Rept. No. 62. 27 pp. 1954.

The crosswise method of loading long watermelons reduces transit-connected damage. J. R. Winston, P. L. Breakiron and J. Kaufman. Fla. State Hort. Soc. Proc. Vol. 67:137-139. 1954.

New load method cuts watermelon losses. P. L. Breakiron, J. R. Winston and J. Kaufman. U. S. Dept. Agr. Marketing Activities, March 1955.

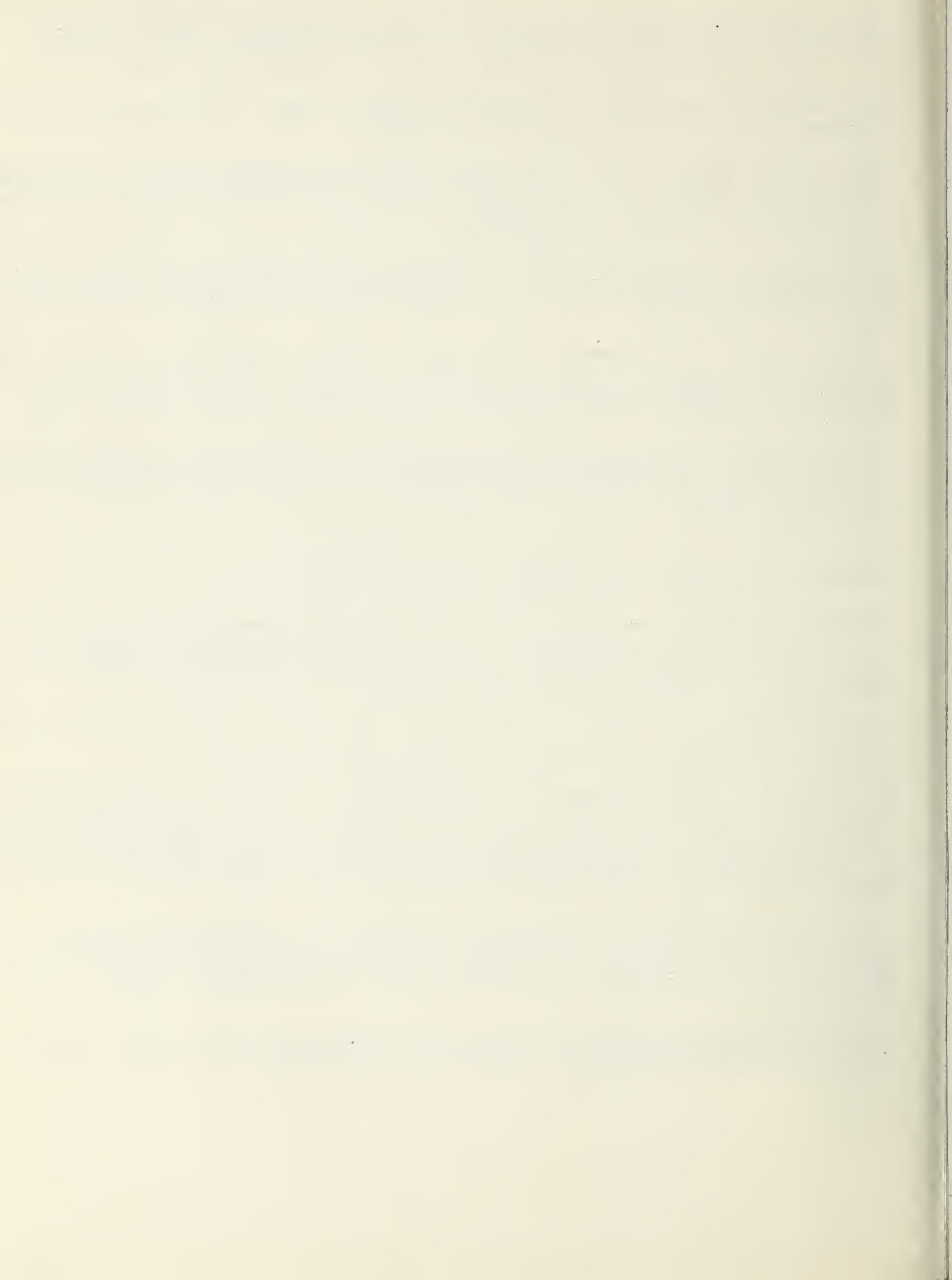
Effects of precooling, salting, carton ventilation and load pattern on temperature, moisture condensation and spoilage in rail shipments of prepackaged Early Black Massachusetts grown cranberries. H. W. Hruschka, J. Kaufman, W. H. Redit, G. B. Ramsey and E. M. Harvey. U. S. Dept. Agr. AMS-43. 23 pp. 1955.

Transit refrigeration studies with California prepackaged carrots. W. R. Barger and W. A. Radspinner. U. S. Dept. Agr. AMS-97. 21 pp. 1956.

A comparison of types of containers, refrigeration, and loads in the transportation of non-precooled navel oranges in half-box fiberboard cartons from central Calif. to Chicago, and New York, Dec. 1952, and Jan. 1953. E. M. Harvey, E. P. Atrops, W. A. Radspinner, J. M. Lutz and H. R. Barber. U. S. Dept. Agr. H.T. & S. Office Rept. No. 293. 28 pp. May 1953. Reissued as AMS-135. 1956.

Shipping tests with Massachusetts-grown cranberries in conventional refrigerator cars with standard ventilation and in mechanically refrigerated cars. J. Kaufman, P. L. Benfield and P. R. Harding, Jr. U. S. Dept. Agr. AMS-187. 9 pp. 1956.

Inverted loading cuts basket breakage. P. L. Breakiron and W. H. Redit. U. S. Dept. Agr. Marketing Activities. 19(6):13-15, June 1956.



Preliminary tests on effects of load pattern, sidewall flues and fans on transit temperatures in winter shipments of apples. H. A. Schomer, T. R. Wright, M. A. Smith and W. A. Radspinner. Proc. 7th Annual Northwest Perishable Loss Prevention Short Course, Yakima and Wenatchee, Wash. p. 15. 1956.

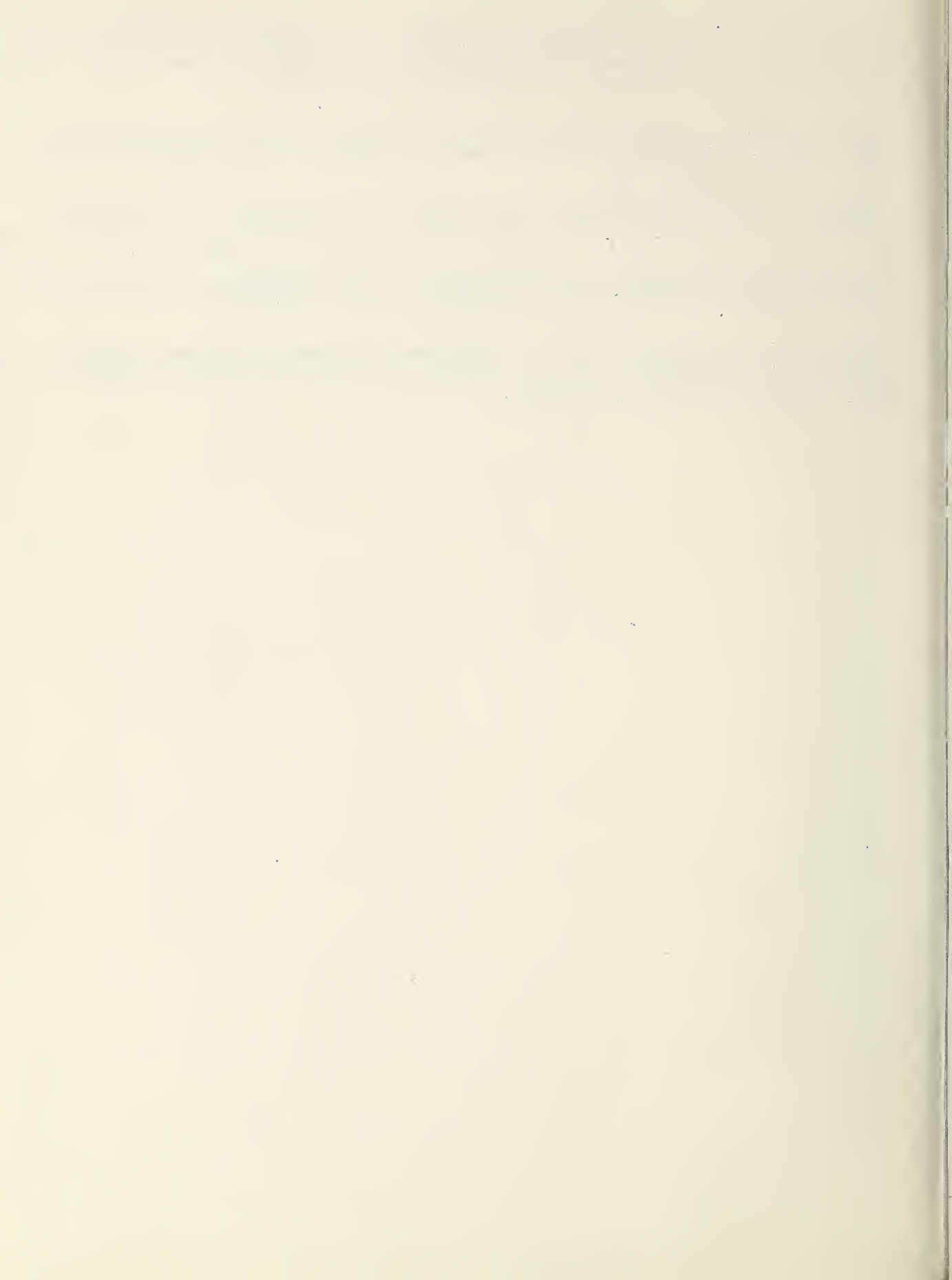
Loading methods and protective services for winter shipments of Maine potatoes by rail (abs) H. W. Hruschka and W. H. Redit. National Potato Utilization Conf. Proc. 7:16-19. Aug. 1956.

Crosswise loading of long-type watermelons. P. L. Breakiron, J. R. Winston, J. Kaufman and C.B. Earle. U. S. Dept. Agr. Marketing Res. Rept. 133. 35 pp. 1956.

A railway transportation test with California early potatoes. W. R. Barger and A. A. McKillop. U. S. Dept. Agr. AMS-160. 10 pp. 1957.

Transit refrigeration studies with White Rose potatoes in various shipping containers. A. L. Ryall and W. R. Barger. Kern Co. Potato Growers Assoc. Yearbook. 13:55, 57, 59, 61, 63. 1957.





FROZEN FOODS

Refrigeration of frozen fruits and vegetables during shipment. E. Smith. Western Canner and Packer. 31:109-110. 1938.

Frozen food transportation test. J. S. Caldwell, D. F. Fisher et al. Frozen Food Industry 1(1):10-11, 58-59. Nov. 1945.

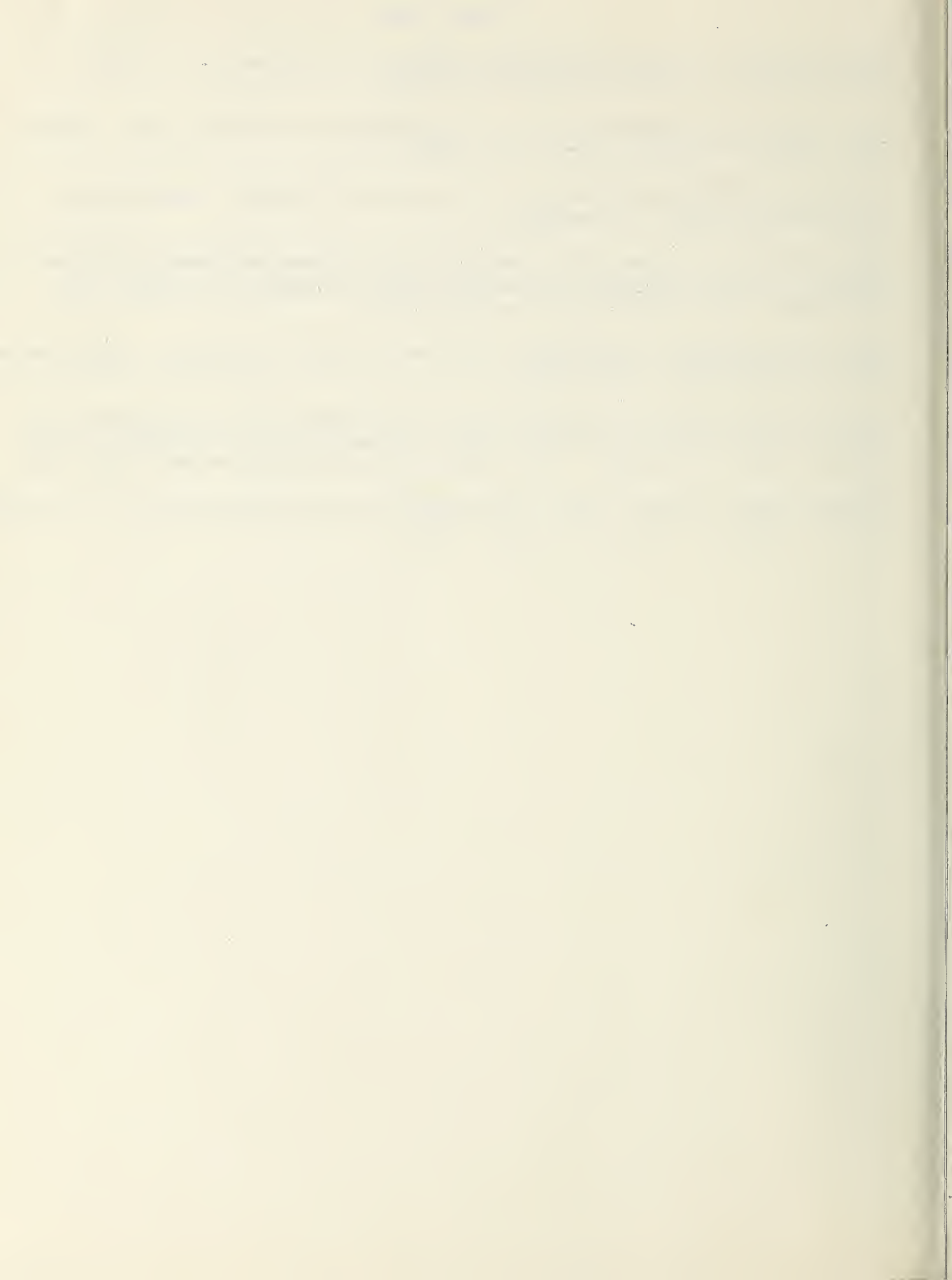
Handling long-distance shipments of frozen food. E. Smith. Food Freezing 1(9):331-333, 356-358. July 1946.

Transportation of frozen citrus concentrate by railroad and motor truck from Florida to northern markets. W. H. Redit, H. D. Johnson, R. Cubbedge, and J. Kaufman. Agr. Inf. Bul. No. 26. June 1951.

Mobile refrigeration of perishables and frozen food. W. H. Redit. Quick Frozen Foods, 15(9):158-160. April 1953.

A test comparing dry ice and mechanical refrigeration in the transportation of frozen citrus concentrate by motor truck. C. E. Garver, M. V. Gerrity, J. R. Winston and R. H. Cubbedge. P.M.A. and B.P.I.S.A.E. mimeo. report. Feb. 1953.

Transportation of frozen citrus concentrates and other frozen foods. E. M. Harvey and W. H. Redit. Food Tech. 9:74-77. 1955.



GENERAL

Transportation investigations on fruits and vegetables. E. D. Mallison. Proc. Pacific Northwest Advisory Board. Dec. 1930.

Methods of handling, transporting and storing perishables improved. D. F. Fisher. U.S.D.A. Yearbook 1933:318-354.

Recent developments in the handling, transportation and storage of fruit. W. T. Pentzer. Proc. Pacific States Cold Storage Warehousemen's Assn. 1933.

Outline of investigations by the U. S. Dept. of Agr. in fruit and veg. transportation. W. V. Hukill. Amer. Soc. Refrig. Eng. Proc. 1935.

A brief summary of the work of the Bureau of Plant Industry relating to the handling, transportation and storage of fruits and vegetables. Amer. Warehouseman's Assn. 48th Ann. Meeting. pp. 317-318. 1939.

Fresh-plucked produce from everywhere. The water way. (The future of transportation of perishables). C. O. Bratley. Amer. Cooking 1 (9):29-46. 1945.

Developments in the packaging, transporting and storing of Texas citrus. A. L. Ryall. Valley Citrus Institute, Weslaco, Texas. Dec. 4, 1946.

Current investigations on the transit refrigeration of perishables. D. F. Fisher. Ice and Refrig. 110:22-24. 1946.

Transportation of fresh fruits and vogs. D. F. Fisher. Food Tech. 1:449-460. 1947.

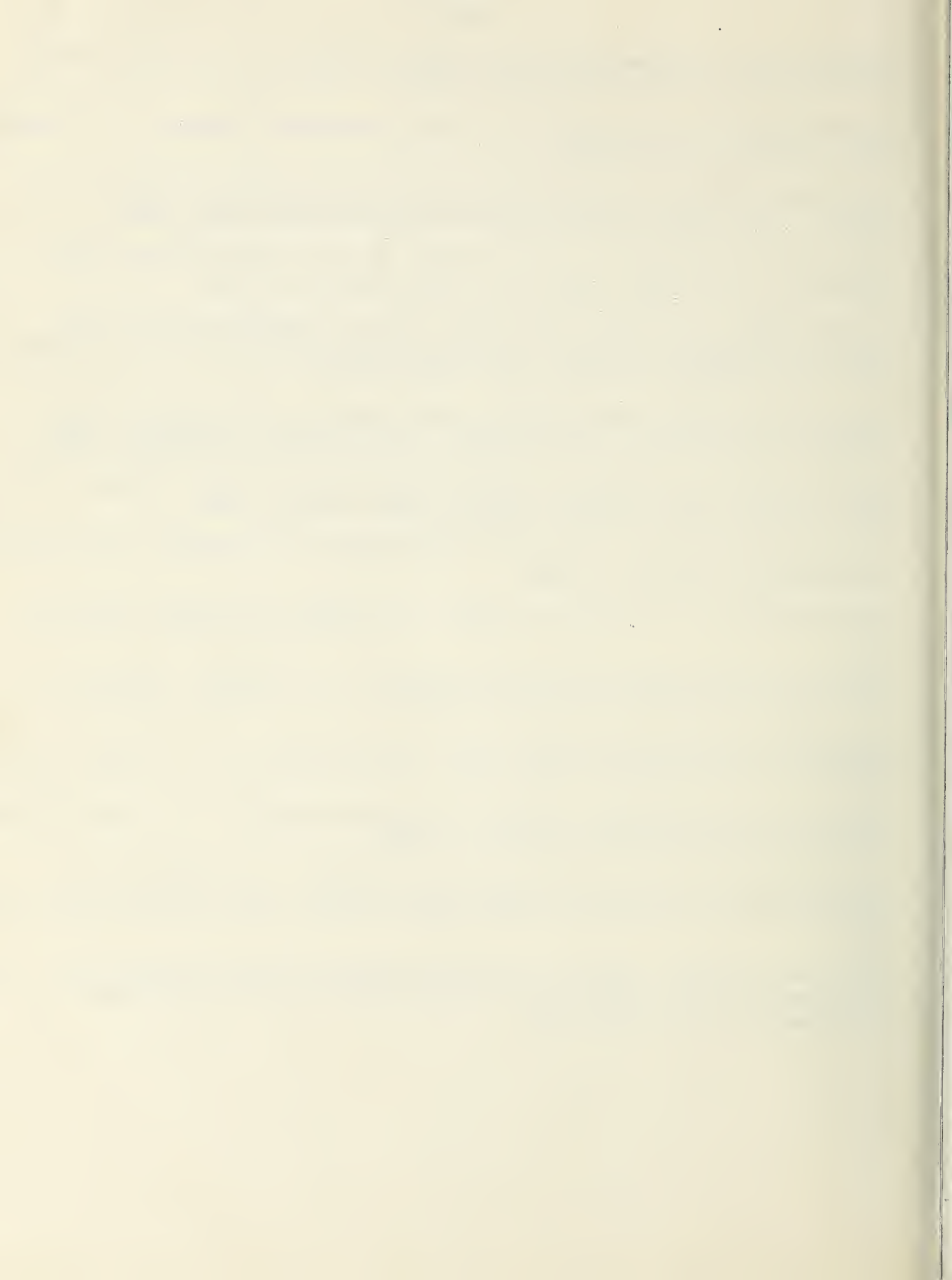
Hazards of shipping fresh fruits and vegetables. D. F. Fisher. Yearbook of the United Fresh Fruit & Veg. Assn. 1947.

Commercial handling and shipping of fruits and vegetables. D. F. Fisher. Ice & Refrig. Vol. 117 (3):20-22. Sept. 1949.

Handling and transportation problems in the peach industry. M. H. Haller. 1950 Annual of the National Peach Council pp. 24-29.

Handling and shipping of prepackaged Florida oranges. J. R. Winston, G. A. Meckstroth and G. L. Roberts. Pre-Pack-Age 3(4):5-10, 1949 and Jan. 3(5):29-31. 1950.

Effect of harvesting, handling and loading potatoes on transit losses. (Abs) H. Findlen. 7th Ann. Conference on transportation losses of perishables. Lafayette, Ind. Mar. 16-20, 1953.





Research activities in the handling and transportation of fruits and vegetables.  
W. T. Pentzer. Proc. of the Conf. on Transportation of Perishables, Davis, Calif.  
pp. 22-28. April 1954.

Handling, storage and transportation studies of potatoes. P. H. Heinze. Potato  
Chipper. 17(2):93-96. Sept. 1957. ✓

